

# Christopher G. Boone

Dean, College of Global Futures  
Professor, School of Sustainability  
Arizona State University  
cgboone@asu.edu

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## Education

Ph.D. (1994), University of Toronto, Department of Geography and Planning, Geography.  
M.A. (1989), University of Toronto, Department of Geography and Planning, Geography.  
B.A. Honours (1987), Queen's University, Department of Geography. Geography major.

Post-doctoral fellow (1993-95), McGill University, School of the Environment.

## Selected Leadership and Administrative Positions

*Founding Dean, College of Global Futures, Arizona State University (July 2020-present)*

- Built a new college that includes the existing School of Sustainability and the School for the Future of Innovation in Society with a new School of Complex Adaptive Systems (in collaboration with the Santa Fe Institute).
- Lead college of 1,977 students (783 undergraduates, 622 graduates, 572 minors) pursuing degrees at the bachelor's, master's, and doctoral levels.
- Provide leadership to 126 faculty and 94 staff and manage a \$22 million annual budget.
- Launched a Justice, Equity, Diversity, and Inclusion (JEDI) Working Group to develop strategic priorities for the college.

*Leadership Team, Julie Ann Wrigley Global Futures Laboratory (July 2019-present)*

- Engaging with the Vice President and Vice Provost of Global Futures to develop strategies to meet the mission and vision of the ASU Global Futures Laboratory.
- Head of Learning Strategies for the Global Futures Laboratory.

*Dean, School of Sustainability, Arizona State University (July 2013-July 2020)*

- Provided leadership to 621 majors, 222 graduate students, and 2,800 students university-wide in sustainability programs (minor, certificates, concentrations). School of Sustainability students recruited from 43 states and 24 countries; 30 percent of total students ethnic/racial minorities.
- Through recruitment of high caliber faculty and staff and delivery of quality education and engagement strategies, maintained the highest freshman retention rates (consistently above 90%) of any major on campus. Built the highest-rated student services team at ASU for undergraduate and graduate programs. Surpassed goals for undergraduate graduation rate--4-year (81%), 5-year (90%) and 6-year (89%)--among the highest of any college at ASU.
- Lead 103 appointed and graduate faculty and 53 instructors and faculty associates. Managed a \$18 million annual operating budget and a staff of 52.
- Deployed the BA, BS, and Master of Sustainability Leadership degrees fully online with 62% headcount growth from 2018 to 2019.
- Secured a philanthropic gift to create the Swette Center for Sustainable Food Systems and recruited a high profile executive director.
- Surpassed ASU 2020 campaign goal and raised \$16.6 million for the School of Sustainability.
- With the VP of Inclusion and Community Engagement, developed strategies for diversity, equity, and inclusion at ASU.
- Created a robust study abroad program that supported 450 students studying in 17 countries.
- Partnered with USAID to create the Global Development Research scholars program, matching 82 graduate students with partner needs in 19 developing countries.
- Secured philanthropic gift to create the Frasier Global Mentorship Program for undergraduates, providing travel funds to match students with sustainability professionals around the world.
- Secured an estate gift to create the Sustainability Undergraduate Research Experience program.

- Working with subject matter experts from the US Army, created a military track for the Master of Sustainability Leadership.
- Worked with Kamehameha Schools and the ASU Center for American Indian Education to increase numbers of indigenous students through dedicated scholarships and custom coursework in sustainability at ASU; successfully hired a professor in Indigenous Sustainability Solutions.
- Worked with local, state, and national partners to create an immersive and required internship program.
- Partnered with the W.P. Carey Business College to create one of the first undergraduate concurrent degree programs at ASU (Sustainability and Supply Chain Management).
- Established the School of Sustainability at the Polytechnic campus in addition to the Tempe campus.
- Created accelerated BA and BS degrees in Sustainability with the Thunderbird Master of Global Affairs and Management.
- Chaired successful search committee for the vice-provost of ASU West Campus.
- Developed dual-credit sustainability courses in Arizona high schools to broaden college going pipeline.
- Presented at Title I schools to support the ASU mission of access, inclusion, and excellence.
- Assisted with the development and implementation of a Sustainability Teachers' Academy, training 159 middle school teachers from 31 states, reaching an estimated 50,000 students.
- Launched three new master's degrees and one new PhD degree.
- Created the university's first joint master's degree with a foreign institution (Leuphana University of Luneburg, Germany).
- Created a sustainability executive education office that includes Starbucks, Wells Fargo, US EPA, World Bank, IFC, Beihang University (China), Nanzan University (Japan), the City of Tempe, and MasterCard Foundation as clients.

*Directorate, Julie Ann Wrigley Global Institute of Sustainability (July 2013-July 2019)*

The ASU Wrigley Institute was governed by a directorate that included the Institute Director and the Dean of the School of Sustainability. The directorate reported to a Management Committee composed of the University President, Provost, VP for Research, and CEO of the Foundation. It was the only institute at ASU that reported directly to the President and his cabinet. The institute served the entire university, particularly in research development and engagement with external partners.

- Supported proposal development leading to \$120 million per year in expenditures.
- Developed campaign strategy, cultivated campaign committee, and raised \$86 million for the ASU 2020 fundraising campaign.
- Worked with the ASU Wrigley Institute board members to craft and refine the university's sustainability strategy and raise resources.
- Developed strategic five-year plan for the Institute and engaged 540 scholars in its design and implementation.
- With directorate, built the Global Consortium for Sustainability Outcomes, an international network of universities and research institutes focused on effective collaboration to achieve tangible and near-term sustainable benefits.
- Developed a bi-national laboratory on Climate Change Adaptation, Vulnerability, and Sustainability with the National Autonomous University of Mexico.

*Associate Dean, School of Sustainability, Arizona State University (2010-2013)*

- Overhauled the undergraduate curriculum using a competency-based approach.
- Worked with faculty to create a new applied master's degree in Sustainability Solutions.
- Chaired a provost committee to create a university-wide Sustainability Minor.
- Partnered with deans from other colleges to create three concurrent master's degrees.

*University Leadership Council on Diversity and Inclusion in International Affairs Education (2019-present)*

- Based at Georgetown University, the council works with deans and other leaders from across the US to improve recruitment and retention of diverse faculty.
- Developing strategies to advance the culture of inclusion in the classroom.

- Creating curricula that mainstreams attention to diversity and inclusion across institutions of higher education.

*Scholarly and Technical Advisory Committee, UCLA Sustainable Los Angeles Grand Challenge (2015-19)*

- Serve on the external advisory board of the first Grand Challenge developed by UCLA, focused on making Los Angeles sustainable by 2050 using technology, policy, and strategy innovations.
- Annually review proposals from UCLA faculty for seed projects
- Review and revise Grand Challenge plans and reports
- Serve on external review panel

*National Academies of Sciences, Engineering, and Medicine (2018-20)*

- Committee member, Strengthening Sustainability Programs and Curricula at the Undergraduate and Graduate Level.
- Authoring a national consensus on sustainability education core knowledge, skills, competencies, and capacities.

*National Council on Science and the Environment (2018-present)*

- Board member
- Working with the Executive Director to develop new strategy for NCSE as it enters its fourth decade of operation.

*Deans Council, ASU-Thunderbird merger (2014-2016)*

- Advised the Dean of the W.P. Carey School of Business and the university provost on the merger of ASU and the Thunderbird School of Global Management.
- Included actions plans for linking executive education between multiple ASU colleges and the existing Thunderbird programs.

*Executive Committee, Council of Environmental Deans and Directors, National Council on Science and the Environment (2013-present)*

- Work with the executive committee to develop priorities for national membership, advise on research for NCSE staff, oversee budget, advocate for environmental and sustainability programs nationwide.
- Engage 120 colleges and universities in strategy discussions and initiatives at winter and summer meetings.

*Research Leader, Cities research at ASU (2016-17)*

- Led the development of university-wide research opportunities on cities and urbanization.
- Built a strategy to engage faculty from all colleges in new research frontiers regarding cities and urbanization.
- Led a team of faculty as part of leadership training to develop strategies for innovative research in cities.

*IoT Innovation Dean (2019-present)*

- Work with a team of deans, faculty, and industry partners to identify opportunities for training and education in IoT.
- Facilitate interactions between ASU IoT teams and public and private sectors.
- Develop and implement IoT projects with industry partners.

*Advisory Board, ASU Humanities Laboratory (2017-present)*

- Build strategies and identify opportunities for university-wide, interdisciplinary solutions labs with humanities perspectives and expertise at the core.
- Creating a humanities lab course on Designing the Future University, which I will teach in fall 2021.

*Environment Initiative Committee, Georgetown University (2012-13)*

- Invited by the Chief of Staff, University Provost, to help envision an interdisciplinary

environment program at Georgetown financed by a \$20M gift.

- Served as an external advisor from a program (School of Sustainability) identified by Georgetown as an exemplar.

*Graduate Director, School of Sustainability, Arizona State University (2006-2010)*

- Led the development and implementation of new graduate degrees in sustainability (MA, MS, PhD)
- Chaired the graduate committee
- Supervised student services staff
- Worked with the founding director of the Global Institute of Sustainability and School of Sustainability to develop and forward the mission.

### **Academic Appointments**

Professor (tenured), joint appointment in the School of Sustainability, School of Human Evolution and Social Change, Arizona State University (April 2010-present)

Permanent Visiting Scholar, Leuphana University of Lüneburg, Germany (July 2015-present)

Visiting Professor, Department of Biology, Georgetown University (August 2012-July 2013)

Affiliate Faculty, School of Geographical Sciences and Urban Planning, Arizona State University (August 2007-present)

Affiliate Faculty, School of Public Affairs, College of Public Programs, Arizona State University (August 2011-present)

Affiliate Faculty, School for the Future of Innovation in Society, Arizona State University (2015-present)

Affiliate Faculty, Global Biosocial Complexity Initiative, Arizona State University (2016-present)

Honors Faculty, Barrett, The Honors College, Arizona State University (2011-present)

Associate Professor (tenured), School of Human Evolution and Social Change, School of Sustainability, Arizona State University (January 2006-April 2010)

Associate Professor (tenured), Ohio University, Department of Geography (September 2002-December 2005)

Assistant Professor (tenure-track), Ohio University, Department of Geography (September 1999-September 2002)

Assistant Professor (tenure-track), California State University-Los Angeles, Department of Geography and Urban Analysis (September 1996-June 1999)

Lecturer, Carleton University, Department of Geography (September 1995-May 1996)

Post-Doctoral Fellow, McGill University, School of the Environment (September 1993-September 1995)

ABD Lecturer, University of Toronto, Department of Geography and Planning (September 1991-August 1993)

### **Research Expertise**

Urban sustainability; urban environments; environmental justice; vulnerability; urbanization and

global environmental change; sustainability transitions; sustainability across the curriculum; human-environment interaction; decision-making; built environments; urban planning; urban forestry; park equity; Geographic Information Science; Global Futures Laboratory; Baltimore Ecosystem Study LTER; Central Arizona Phoenix LTER; Sustainable Los Angeles Grand Challenge (UCLA)

(For all publications, primary author is listed first)

Google Scholar Citations: 5,515; H-Index: 30; I-10 Index: 47

### Refereed Books (3)

Kapucinski, Anne, R., Agrawal, Arun, **Boone, Christopher**, Bromaghim, Erin, Louis, Garrick E., Taylor, Dorceta E. 2020. *Strengthening Sustainability Programs and Curricula in Higher Education*. Washington, D.C.: The National Academies Press. <https://doi.org/10.17226/25821>

**Boone, Christopher G.**, Fragkias, Michail (eds.). 2013. *Urbanization and Sustainability: Linking ecology, environmental justice, and global environmental change*. Dordrecht: Springer Press. <http://link.springer.com/book/10.1007/978-94-007-5666-3/page/1>

**Boone, Christopher G.**, Modarres, Ali. 2006. *City and Environment*. Philadelphia: Temple University Press. (reprinted in 2007 by Pearson Education India)

### Book in Preparation

Grove, J. Morgan, Pickett, Steward T.A., **Boone, Christopher G.**, Cadenasso, Mary, Locke, Dexter, Ogden, Laura, and Rademacher, Anne M. *Ecology of Segregation: Learning from a Resilient System*. Yale University Press. (expected publication August 2021).

### Published and Forthcoming Refereed Journal Articles (52)

Locke, Dexter H., Hall, Billy, Grove, J. Morgan, Pickett S.T.A., Ogden, Laura, Aoki, Carissa, **Boone, Christopher G.**, O'Neil-Dunne, Jarlath P.M. Accepted and in press. Residential housing segregation and urban tree canopy in 37 US cities. *Nature Partner Journals: Urban Sustainability*.

**Boone, Christopher G.**, Pickett S.T.A., Bammer, G. Bawa, Kamal, Dunne, Jennifer A., Gordon, Iain J., Hart, David, Hellman, Jessica, Miller, Alison, New, Mark, Moetto, Jean P., Wendorf, Gabriele, Agrawal, Arun, Bertsch, Paul, Campbell, Colin, Dood, Paul, Janetos, Anthony, Mallee, Hein. 2020. Preparing Interdisciplinary Leadership for a Sustainable Future. *Sustainability Science*. DOI: 10.1007/s11625-020-00823-9

Pickett, Steward, Cadenasso, Mary, Baker, Matthew, Band, Lawrence, **Boone, Christopher**, Buckley, Geoffrey, Groffman, Peter, Grove, Morgan, Irwin, Elena, Kaushal, Sujay, LaDeau, Shannon, Miller, Andrew, Nilon, Charles, Romolini, Michelle, Rosi, Emma. Swan, Christopher, Szlavecz, Katalin. 2020. Theoretical Perspectives of the Baltimore Ecosystem Study: Conceptual Evolution in a Socio-Ecological Research Project. *Bioscience*. <https://doi.org/10.1093/biosci/biz166>

Gordon, I.J., Bawa, K., Bammer, G., **Boone, C.**, Dunne, J., Hart, D., Hellmann, J., Miller, A., New, M., Ometto, J., Pickett, S., Wendorf, G., Agrawal, A., Bertsch, P., Campbell, C.D., Dodd, P., Janetos, A., Kramer, J., Mallee, H., & Taylor, K. 2019. Forging Future Organizational Leaders for Sustainability Science. *Nature Sustainability*. 2: 647-649. doi:10.1038/s41893-019-0357-4

Sala, Osvaldo E., **Boone, Christopher G.**, Turner, B.L., Currier, Courtney. 2019. The sustainability publication gap and its implications. *Current Opinion in Environmental Sustainability*. 39: 39-43. <https://doi.org/10.1016/j.cosust.2019.06.006>

Solecki, William, **Boone, Christopher G.**, Grimm, Nancy B., Lankao, Paty Romero, Lobo, Jose, Luque, Andres E., Marcotullio, Peter, Young, Andrea. 2019. Extreme Events and Climate Adaptation-Mitigation Linkages: Understanding Low-Carbon Transitions in the Era of Global Urbanization. *WIREs Climate Change*. <https://doi.org/10.1002/wcc.616>

Shrestha, Milan, Sherpa, Sonam, Eakin, Hallie, **Boone, Christopher G.** 2019. Cryospheric Hazards and Risk perceptions in the Mt. Everest region, Nepal. *Natural Hazards*.  
<https://doi.org/10.1007/s11069-018-3560-0>

Grove, J. Morgan, Ogden, Laura, Pickett, Steward, **Boone, Christopher G.**, Buckley, Geoffrey L., Locke, Dexter, and Lord, Charles. 2018. The legacy effect: understanding how segregation and environmental injustice unfold over time in Baltimore. *Annals of the Association of American Geographers*. 108:2, 524-537. DOI: 10.1080/24694452.2017.1365585

Chuang, Wen-Ching, **Boone, Christopher G.**, Buckley, Geoffrey L., Grove, J. Morgan, Locke, Dexter, Whitmer, Ali, and Zhang, Sainan. 2017. Tree canopy change and neighborhood stability: a comparative analysis of Washington, DC and Baltimore, MD. *Urban Forestry and Urban Greening*. 27:363-372.

Buckley, Geoffrey L., **Boone, Christopher G.**, Grove, J. Morgan. 2017. The Greening of Baltimore's Asphalt Schoolyards. *Geographical Review*. 107, 3: 516-535. DOI:10.1111/j.1931-0846.2016.12213.x

Fragkias, Michail, **Boone, Christopher G.** 2016. Modern political economy, global environmental change, and urban sustainability transitions. *Current Opinion in Environmental Sustainability*. 22, 63-68.

Pope, Ronald, Wu, Jianguo, and **Boone, Christopher G.** 2016. Spatial patterns of air pollutants and social groups: A distributive environmental justice study in the Phoenix Metropolitan Region of USA. *Environmental Management*. 58:753-766. DOI: 10.1007/s00267-016-0741-z

William Solecki, Karen C. Seto, Deborah Balk, Anthony Bigio, **Christopher Boone**, Felix Creutzig, Michail Fragkias, Patricia Romero-Lankao, Shuaib Lwasa, Peter Marcotullio, Timm Zwickel. 2015. A conceptual framework for a typology for integrating perspectives on climate change mitigation and adaptation in urban areas. *Urban Climate*. DOI: 10.1016/j.uclim.2015.07.001

Schwarz, K., Fragkias, M., **Boone, C.G.**, Grove, J.M., McHale, M., O'Neil-Dunne, J., Buckley, Geoffrey L., Cadenasso, M., Childers, D., McFadden, J., Ogden, L., Pataki, D., Pickett, S.T.A., Pincetl, S., Whitmer, A, Zhou, W. 2015. Trees grow on money: urban tree canopy cover and environmental justice. *PLOS ONE*. 10(4): e0122051. doi:10.1371/journal.pone.0122051. Open access: <http://www.plosone.org/article/fetchObject.action?uri=info:doi/10.1371/journal.pone.0122051&representation=PDF>

Nathan A. Toké, **Christopher G. Boone**, and J. Ramón Arrowsmith. 2014. Fault Zone Regulation, Seismic Hazard, and Social Vulnerability in Los Angeles, California: Hazard or Urban Amenity? *Earth's Future* 2,9:440-457. Open access: <http://onlinelibrary.wiley.com/doi/10.1002/2014EF000241/abstract>

Wutich, Amber, Brewis, Alexandra, Ruth, Alissa, and **Boone, Christopher G.** 2014. Stigmatized neighborhoods, social bonding, and health. *Medical Anthropology Quarterly* 28, 4:556-577.

**Boone, Christopher G.**, Fragkias, Michail, Buckley, Geoffrey L., Grove, J. Morgan. 2014. A long view of polluting industry and environmental justice in Baltimore. *Cities* 36: 41-49. <http://dx.doi.org/10.1016/j.cities.2013.09.004>

York, Abigail, Tucillo, Joseph, Bolin, Bob, **Boone, Christopher G.**, Gentile, L.E., Schoon, B., Kane, Kevin. 2014. Zoning and land-use fragmentation: a tale of incompatibility, heterogeneity, and environmental injustice in early Phoenix. *Journal of Urban Affairs*. DOI: 10.1111/juaf.12076

Hughes, Sara, Pincetl, Stephanie, and **Boone, Christopher G.** 2013. Triple exposure: Regulatory,

climatic, and political drivers of water management changes in the city of Los Angeles. *Cities*. 32:51-59. doi: <http://dx.doi.org/10.1016/j.cities.2013.02.007>

Pickett, S. T. A., **C.G. Boone**, B.P. McGrath, M.L. Cadenasso, D.L. Childers, L.A. Ogden, M. McHale, and J.M. Grove. 2013. Ecological science and transformation to the sustainable city. *Cities*, 32: S10-S20. <http://dx.doi.org/10.1016/j.cities.2013.02.008>

Zhang, Sainan, Shrestha, Milan, York, Abigail, **Boone, Christopher G.** 2012. Methodological Advances in the Spatial Analysis of Land Fragmentation. *Professional Geographer* 65:3, 512-526. doi:10.1080/00330124.2012.700501

Zhuo, Xiaoding, **Boone, Christopher G.**, Shock, Everett. 2012. Soil lead distribution and environmental justice in the Phoenix metropolitan region. *Environmental Justice*. 5(4): 206-213. doi:10.1089/env.2011.0041

Karen C. Seto, Anette Reenberg, **Christopher G. Boone**, Michail Fragkias, Dagmar Haase, Tobias Langanke, Peter Marcotullio, Darla K. Munroe, Branislav Olah, David Simon. 2012. Urban Land Teleconnections and Sustainability. *Proceedings of the National Academy of Sciences*. 109 (20): 7687-7692. doi: [www.pnas.org/cgi/doi/10.1073/pnas.1117622109](http://www.pnas.org/cgi/doi/10.1073/pnas.1117622109)

**Boone, Christopher G.**, Cook, Elizabeth, Hall, Sharon J., Nation, Marcia L., Grimm, Nancy B., Raish, Carol, Finch, Deborah, and York, Abigail. 2012. A comparative gradient approach as a tool for understanding and managing urban ecosystems. *Urban Ecosystems* 15, 4: 795-807. doi: 10.1007/s11252-012-0240-9

Shrestha, Milan K., York, Abigail M., **Boone, Christopher G.**, Zhang, Sainan. 2011. Land fragmentation due to rapid urbanization in the Phoenix Metropolitan Area: Analyzing the spatiotemporal patterns and drivers. *Applied Geography* 32, 522-531. doi:10.1016/j.apgeog.2011.04.004

Pataki, Diane E., **Boone, Christopher G.**, Hogue, Terri S., Pincetl, Stephanie. 2011. Socio-ecohydrology and the urban water challenge. *Ecohydrology* 4, 2: 341-347. DOI: 10.1002/eco.209

Pickett, S.T.A., Cadenasso, Mary L., Grove, J. Morgan, **Boone, Christopher G.**, Groffman, Peter M., Irwin, E., Kaushal, Sujay, Marshall, Victoria, McGrath, Brian P., Nilon, Charles H., Pouyat, Richard V., Szlavecz, Katalin, Troy, Austin, and Warren, Paige. 2011. Urban ecological systems: Scientific foundations and a decade of progress. *Journal of Environmental Management*. 92: 331-362. doi:10.1016/j.jenvman.2010.08.022

York, Abigail, Shresta, Milan, **Boone, Christopher G.**, Zhang, Sainan, Harrington, John A., Swann, Amaris, Agar, Michael, Antolin, Michael F., Nolen, Barbara, Wright, John B., Skaggs, Rhonda. 2011. Land fragmentation under rapid urbanization: a cross-site analysis of Southwestern cities. *Urban Ecosystems*. doi: 10.1007/s11252-011-0157-8

York, Abigail, Smith, Michael E., Stanley, Benjamin W., Stark, Barbara L., Novic, Juliana, Harlan, Sharon L., Cowgill, George, **Boone, Christopher G.** 2011. Ethnic and class clustering through the ages: a transdisciplinary approach to urban neighborhood social patterns. *Urban Studies* 48, 11:2399-2415. doi: 10.1177/0042098010384517

**Boone, Christopher G.**, Cadenasso, Mary L., Grove, J. Morgan, Schwartz, Kirsten, Buckley, Geoffrey L. 2010. Landscape, vegetation characteristics, and group identity in an urban and suburban watershed: why the 60s matter. *Urban Ecosystems*. 13, 3: 255-271. doi: 10.1007/s11252-009-0118-7

**Boone, Christopher G.**, Buckley, Geoffrey L., Grove, J. Morgan, and Chona Sister. 2009. Parks and People: An Environmental Justice Inquiry in Baltimore, Maryland. *Annals of the Association of American Geographers* 99(4): 1-21. doi: 10.1080/00045600903102949

Cutts, Bethany B., Darby, Kate J., **Boone, Christopher G.**, and Brewis, Alexandra. 2009. City structure, obesity, and environmental justice: An integrated analysis of physical and social barriers to walkable streets and park access. *Social Science and Medicine*. 69 (9): 1314-1322. doi:10.1016/j.socscimed.2009.08.020

Merse, C. L., G. L. Buckley, and **C. G. Boone**. 2009. Street Trees and Urban Renewal: A Baltimore Case Study. *The Geographical Bulletin* 50, 2:65-82.

Wells, James, Buckley, Geoffrey L., and **Boone, Christopher G.** 2008. Separate but Equal? Carroll Park and the Campaign to Desegregate Baltimore's Golf Courses, 1923-1951. *Geographical Review* 98, 2:151-170.

S.T.A. Pickett, P.M. Groffman, M.L. Cadenasso, J.M. Grove, L.W. Band, **C.G. Boone**, W.R. Burch, Jr., S. Grimmond, J. Hom, J.C. Jenkins, N.L. Law, C.H. Nilon, R.V. Pouyat, K. Szlavecz, P.S. Warren, M.A. Wilson. 2008. Beyond urban legends: an emerging framework of urban ecology as illustrated by the Baltimore Ecosystem Study. *BioScience* 58, 2: 139-150.

**Boone, Christopher G.** 2008. Improving resolution of census data in metropolitan areas using a dasymetric approach: applications for the Baltimore Ecosystem Study. *Cities and the Environment* 1, 1: article 3. Online: <http://digitalcommons.lmu.edu/cate/vol1/iss1/3>

**Boone, Christopher G.** 2008. Environmental Justice as Process and New Avenues for Research. *Environmental Justice* 1, 3: 149-153.

Grineski, Sara, Bolin, Bob, and **Boone, Christopher G.** 2007. Criteria Air Pollution and Marginalized Populations: Environmental Inequity in Metropolitan Phoenix, Arizona, USA. *Social Science Quarterly* 88, 2:535-554. DOI: 10.1177/0042098010384517

Haberl, H., V. Winiwarter, K. Andersson, R. U. Ayres, **C. Boone**, A. Castillo, G. Cunfer, M. Fischer-Kowalski, W. R. Freudenburg, E. Furman, R. Kaufmann, F. Krausmann, E. Langthaler, H. Lotze-Campen, M. Mirtl, C. L. Redman, A. Reenberg, A. Wardell, B. Warr and H. Zechmeister. 2006. From LTER to LTSER: Conceptualizing the Socioeconomic Dimension of Long-term Socioecological Research. *Ecology and Society* 11 (2): 13. [online] URL: <http://www.ecologyandsociety.org/vol11/iss2/art13/>

Grove, J. M., Cadenasso, M. L., Burch, W. R., Pickett, S. T. A., Schwarz, K., O'Neil-Dunne, J., Wilson, M., Troy, A., **Boone, C.** 2006. Data and methods comparing social structure and vegetation structure of urban neighborhoods in Baltimore, Maryland. *Society & Natural Resources* 19, 2: 117-136.

**Boone, Christopher G.** 2003. Obstacles to Infrastructure Provision: The Struggle to Build Comprehensive Sewer Works in Baltimore. *Historical Geography* 31: 151-168.

Jokisch, Brad, and **Christopher G. Boone**. 2003. Teaching and Tragedy: Lessons from a Population and GIS Workshop in Cambodia. *Journal of Geography* 102, 1: 13-20.

**Boone, Christopher G.** 2002. An Assessment and Explanation of Environmental Inequity in Baltimore. *Urban Geography* 23, 6: 581-595.

Mercier, Michael E., and **Christopher G. Boone**. 2002. Infant Mortality in Ottawa, Canada, 1901:



Assessing Cultural, Economic, and Environmental Factors. *Journal of Historical Geography* 28, 4: 486-507.

**Boone, Christopher G.**, and Ali Modarres. 1999. Creating a Toxic Neighborhood in Los Angeles County: A Historical Examination of Environmental Inequity. *Urban Affairs Review* 35, 2:163-187.

**Boone, Christopher G.** 1998. Real Estate Promotion and the Shaping of Los Angeles. *Cities* 15, 3:155-163.

**Boone, Christopher G.** 1997. Private Initiatives to Make Flood Control Public: The St. Gabriel Levee and Railway Company in Montreal. *Historical Geography* 25:100-112.

**Boone, Christopher G.** 1997. Cities and Environment in Historical Perspective: An Introduction. *Historical Geography* 25:46-48.

**Boone, Christopher G.** 1996. Language Politics and Flood Control in Nineteenth-Century Montreal. *Environmental History* 1, 3: 70-85.

**Boone, Christopher G.** 1996. The Politics of Transportation Services in Suburban Montreal: Sorting out the 'Mile End Muddle,' 1893-1909. *Urban History Review* (March): 25-39.

**Boone, Christopher G.** 1995. Streetcars and Politics in Rio de Janeiro: Private Enterprise versus Municipal Government in Mass Transit Delivery, 1903-1920. *Journal of Latin American Studies* 27: 343-365.

**Boone, Christopher G.** 1994. Streetcars and Popular Protest in Rio de Janeiro: the Case of the Rio de Janeiro Tramway, Light and Power Company, 1903-1920. *Conference of Latin Americanist Geographers Yearbook* 49-57.

### Refereed Book Chapters (19)

**Boone, Christopher G.** Sustainability and Justice. 2020. In *Sustainability for the 21st Century: Pathways, Programs, and Policies (Third Edition)*. Eds. Bjoern Hagen and David Pijawka. Kendall Hunt.

**Boone, Christopher G.** Forthcoming. Sustainability Scholarship and Education: Opportunities and Strategies for Success. *The Future of Sustainability Education at North American Universities*. Ed. Naomi Krogman. Edmonton: University of Alberta Press.

Grove, J. Morgan, Ogden, Laura, Pickett, Steward, **Boone, Chris**, Buckley, Geoff, Dexter H. Locke, Dexter H., Lord, Charlie and Hall, Billy. 2019. The Legacy Effect: Understanding How Segregation and Environmental Injustice Unfold over Time in Baltimore. In *Social Justice and the City*, ed. Nik Heynen. Routledge Press.

Buckley, Geoffrey L, **Boone, Christopher G.** and Lord, Charles. Environmental Justice and Environmental History. 2018. Pp. 61-71 in Steward T.A. Pickett et al. eds., *Science for the Sustainable City: Empirical Insights from the Baltimore School of Urban Ecology*. New Haven and London: Yale University Press.

York, Abigail M. and **Boone, Christopher G.** 2018. Inventing Phoenix: Land use, politics, and environmental justice. Pp. 161-180 in *The American Environment Revisited*. Eds. Geoffrey L. Buckley and Yolanda Youngs. Lanham: Rowman and Littlefield.

**Boone, Christopher G.**, and Buckley, Geoffrey L. 2017. Historical approaches for understanding environmental justice processes. Pp. 222-230 in *Routledge Handbook of Environmental Justice*. Eds. Ryan Holifield, Jayajit Chakraborty, and Gordon Walker. London and New York: Routledge.

**Boone, Christopher G.**, and Klinsky, Sonja. 2016. Environmental Justice and Transitions to a Sustainable Urban Future. Pp. 327-335 in *Handbook of Urbanization and Global Environmental Change*. Eds. Karen C. Seto, William D. Solecki, and Corrie A. Griffith. London and New York: Routledge.

**Boone, Christopher G.**, Charles L. Redman, Hilda Blanco, Dagmar Haase, Jennifer A. M. Koch, Shuaib Lwasa, Harini Nagendra, Stephan Pauleit, Steward T. A. Pickett, Karen C. Seto, and Makoto Yoko. 2014. Reconceptualizing Land for Sustainable Urbanity. Eds. Karen Seto and Anette Reenberg. *Rethinking Global Land Use in an Urban Era*. Cambridge: MIT press.

**Boone, Christopher G.** Equity and Justice in the City. 2014. *North American Odyssey: Historical Geographies for the Twenty-First Century*. Pp. 413-428. Eds. Craig E. Colten and Geoffrey L. Buckley. Rowman & Littlefield.

**Boone, Christopher G.**, Fragkias, Michail. 2013. Connecting environmental justice, sustainability, and vulnerability. Pp. 49-59 in *Urbanization and Sustainability -- linking ecology, environmental justice, and global environmental change*. Eds. Christopher G. Boone and Michail Fragkias. Springer Press. doi: 10.1007/978-94-007-5666-3\_4

Fragkias, Michail, and **Christopher G. Boone**. 2013. Towards a new framework for urbanization and sustainability. Pp. 1-10 in *Urbanization and Sustainability -- linking ecology, environmental justice, and global environmental change*. Eds. Christopher G. Boone and Michail Fragkias. Springer Press. doi: 10.1007/978-94-007-5666-3\_1

Pickett, Steward T.A., **Boone, Christopher G.**, Cadenasso, Mary L. 2013. Ecology and environmental justice: understanding disturbance using ecological theory. P. 27-47 in *Urbanization and Sustainability -- linking ecology, environmental justice, and global environmental change*. Eds. Christopher G. Boone and Michail Fragkias. Springer Press. doi: 10.1007/978-94-007-5666-3\_3

**Boone, Christopher G.** Social Contexts of Contemporary Urban Systems. 2013. Pp. 47-69 in *Resilience In Ecology and Urban Design: Synergies For Theory And Practice In The Urban Century* eds. Steward Pickett, Mary Cadenasso, and Brian McGrath. Springer Press.

Grimm, Nancy B., Redman, Charles L., **Boone, Christopher G.**, Childers, Daniel L., Turner, Billie L., Harlan, Sharon. 2012. Viewing the urban socio-ecological system through a sustainability lens: lessons and prospects from the Central Arizona-Phoenix LTER program. Eds. Simron Singh and Helmut Haberl, *Long Term Social and Ecological Research*, Springer Press.

**Boone, Christopher G.**, and Gragson, Ted, and Grove, J. Morgan. 2012. Population, Economy, and Environmental Change. In Peters, DPC, Laney CM, Lugo AE, Collins SL, Driscoll CT, Groffman PM, Grove JM, Knapp AK, Kratz TK, Ohman MD, Waide RB, and Yao J. Long-term trends in ecological systems: a basis for understanding responses to global change. USDA Agricultural Research Service Publication. Washington, D.C.

**Boone, Christopher G.** 2011. The political ecology of floods and vulnerability in late nineteenth-century Montreal. Pp. 133-147 In *Metropolitan Natures: Urban Environmental Histories of Montreal*. Eds. Stéphane Castonguay and Michèle Dagenais. Pittsburgh: University of Pittsburgh Press.

Buckley, Geoffrey L., **Boone, Christopher G.** 2011. "To promote the material and moral welfare of the community": Neighborhood Improvement Associations in Baltimore, Maryland, 1900 – 1945. In *Environmental and Social Inequalities in the City since 1800*, eds. R. Rodger and G. Massard-Guilbaud. Cambridge: White Horse Press.

Paige S. Warren, S. Harlan, **C. Boone**, S. B. Lerman, E. Shochat, and A. P. Kinzig. 2010. Urban Ecology and Human Social Organization. Pp. 172-201 in Ed. Kevin Gaston *Urban Ecology*. Cambridge: Cambridge University Press.

**Boone, Christopher G.** 2005. Zoning and Environmental Inequity in the Industrial East Side. pp. 167-178 in *Land of Sunshine: An Environmental History of Metropolitan Los Angeles* eds. William Deverell and Greg Hise. Pittsburgh: University of Pittsburgh Press.

### **Editorials, non-refereed Academic Publications (18)**

Roseland, Mark, and **Boone, Christopher**. Community land trusts could help heal segregated cities. *The Conversation*. September 10, 2020. Online: <https://theconversation.com/community-land-trusts-could-help-heal-segregated-cities-144708>. (8,250 reads as of 11/10/20)

**Boone, Christopher G.** Without the chance to continuously learn, we can become very good at our jobs while better opportunities pass us by. *Wells Fargo Viewpoints*. July 31, 2020: <https://stories.wf.com/without-the-chance-to-continuously-learn-we-can-become-very-good-at-our-jobs-while-better-opportunities-pass-us-by>

**Boone, Christopher G.** (Section editor and co-author). Environmental Justice and Decarbonization of Sectors. Response to the US House Select Committee on the Climate Crisis Request for Information. Julie Ann Wrigley Global Institute of Sustainability. November 22, 2019.

Schlosser, Peter, White, Dave, Merrigan, Kathleen, Lackner, Klaus, Dirks, Gary, Aggarwal, Rimjhim, Berman, Nina, **Boone, Christopher**, Eakin, Hallie, Sarda, Bruno, van der Leeuw, Sander. Recognizing the urgency of our climate crisis: ASU Global Futures Laboratory response to the IPCC Special Report on Climate Change and Land. *Medium*. August 14, 2019. Online: <https://medium.com/@asuglobalfuture/recognizing-the-urgency-of-our-climate-crisis-5042bd77117f>

**Boone, Christopher G.** Why some counties are powerhouses for innovation. *The Conversation*. March 19, 2019. Online: <https://theconversation.com/why-some-counties-are-powerhouses-for-innovation-111040>. (10,975 reads as of 11/10/20).

**Boone, Christopher G.** The US has become a nation of suburbs. *The Conversation*. September 19, 2018. Online: <https://theconversation.com/the-us-has-become-a-nation-of-suburbs-101501>. (28,027 reads as of 11/10/20).

Gosselin, David, Vincent, Shirley, **Boone, Christopher**, Danielson, Antje, Parnell, Rod, Pennington, Deanna. 2016. Introduction to the Special Issue: Negotiating Boundaries: Effective Leadership of Interdisciplinary Environmental and Sustainability Programs. *Journal of Environmental Studies and Sciences*. 10.1007/s13412-015-0357-2

**Boone, Christopher G.** 2015. On hope and agency in sustainability: Lessons from Arizona State University. *The Journal of Sustainability Education*. Vol. 10 (November). Online: [http://www.jsedimensions.org/wordpress/content/on-hope-and-agency-in-sustainability-lessons-from-arizona-state-university\\_2015\\_11/](http://www.jsedimensions.org/wordpress/content/on-hope-and-agency-in-sustainability-lessons-from-arizona-state-university_2015_11/)

**Boone, Christopher G.** 2015. The Human Experience in the Urban Environment. *Urbanization and Global Environmental Change Viewpoints*. <https://ugecviewpoints.wordpress.com/2015/12/29/the-human-experience-in-the-urban-environment/>

**Boone, Christopher G.** 2015. Leadership Profile: Christopher Boone, ASU School of

Sustainability. In Shirley Vincent et al. *Interdisciplinary Environmental and Sustainability Education and Research: Leadership and Administrative Structures*. National Council for Science and the Environment. pp. 26-27.

**Boone, Christopher G.** 2014. Introduction to urbanization, carbon cycle, and climate change. *Earth's Future*. 2,10: 471-472.

**Boone, Christopher G.** 2012. Urban sustainability and ecology of environmental justice. *Urbanization and Global Environmental Change Viewpoints* 7: 36-39.

Fragkias, Michail, Langanke, Tobias, **Boone, Christopher**, Haase, Dagmar, Marcotullio, Peter J., Munroe, Darla, Olah, Branislav, Reenberg, Anette, Seto, Karen C., Simon, David. 2012. Land teleconnections in an urbanizing world: A workshop report. GLP Report No. 5; GLP-IPO, Copenhagen. UGEC Report No. 6; UGEC-IPO, Tempe, AZ.  
[http://www.globallandproject.org/Documents/GLP\\_report\\_05.pdf](http://www.globallandproject.org/Documents/GLP_report_05.pdf)

Lead author for Chapter II, Urban Systems and Climate Change in Context, convening lead authors Nancy Grimm and Dale Quatrocchi. In U.S. Cities and Climate Change: Urban, Infrastructure, and Vulnerability Issues. Technical Report Input to the US National Climate Assessment. Coordinating lead authors William Solecki and Cynthia Rosensweig. CUNY Institute for Sustainable Cities at Hunter College and Center for Climate Systems, Columbia University/Goddard Institute for Space Studies. 1 March 2012.

**Boone, Christopher G.** 2010. Environmental Justice, Sustainability, and Vulnerability. *International Journal of Urban Sustainable Development*. 2, 1-2: 135-140. DOI: 10.1080/19463138.2010.513772

York, Abigail M., Zhang, Sainan, **Boone, Christopher G.**, Shrestha, Milan. 2009. Landscape Fragmentation under Rapid Urbanization. *Urbanization and Global Environmental Change Viewpoints* 1,2: 20-24.

Pickett, S.T.A., **Boone, Christopher G.**, Cadenasso, Mary L. 2007. Relationships of Environmental Justice to Ecological Theory. *Bulletin of the Ecological Society of America* 88(2): 166-170.

Cook, Elizabeth, **Boone, Christopher G.**, Hall, Sharon, Nation, Marcia L. Urban long-term research along a Southwest socio-ecological gradient: Phoenix, Albuquerque, and Las Cruces. White paper for the US Forest Service. (April 2009).

## **Manuscripts in Review or Under Revision**

### **Journal Articles in Preparation**

Grove, Pickett, Ogden, Rademacher, Locke, Boone, Buckley, Cadenasso, LaDeau, and Hall. When Systems of Ecology and Racism Meet: A new dimension for social-ecological research and transdisciplinary science. In preparation for *Bioscience*.

Boone, Christopher G. and Solecki, William. Transitioning to a Sustainable Urban Future. In preparation for *Frontiers in Ecology and Evolution*.

### **Book chapters in Preparation**

**Grants Awarded** (as PI: \$5.61 million; co-PI or senior scientist: \$34.3 million; collaborator: \$31.5 million)

“Sustainability Awareness Programming/Sustainable Earth.” (Boone PI). Wells Fargo Foundation. \$488,000. 2021-22.

“Sustainable Earth Proposal Phase IV.” (Boone, PI). Wells Fargo Foundation. \$500,000. 2021-2022.

“Sustainability Narratives Initiative.” (Boone, PI). Wells Fargo Foundation. \$1,000,000. 2019-2021.

“Central Arizona Phoenix LTER Ecological Research Project IV: Understanding urban system dynamics and promoting urban sustainability in the Phoenix Metro Area” (Dan Childers PI, Boone and others senior scientist). National Science Foundation. \$6,782,824. 2016-2022.

“Global Development Research.” (Mohamed Abdalla PI, Boone co-PI). Toledo Community Foundation (First Solar Corp.). \$49,993. 2018-19.

“Desert Discovery Center Collaboration” (Boone, PI), Desert Discovery Center Scottsdale, Inc., \$25,576. 2017-2018.

“Neighborhood Stability and Change in Metropolitan Baltimore” (Boone, PI), USDA Forest Service, \$63,250. 2012-2016.

“Urban Resilience to Climate Change-Driven Extreme Events” (Redman, PI, Boone and others collaborator), National Science Foundation, \$12,000,000. 2015-2020.

“Climate Change, Sustainability, and Investment Risk.” (Boone, p.i.), International Finance Corporation, \$45,000. May 2015.

“USAID Global Development Lab Research and Innovation Fellowship at ASU” (Boone p.i. and others), USAID. \$1,920,457. 2014-16.

“Pakistan Centers for Advanced Studies in Energy.” (Panchanathan, p.i., Boone and others collaborators), USAID. \$18,000,000.

“Baltimore Ecosystem Study Phase III: Adaptive Processes in the Baltimore Socio-Ecological System from the Sanitary to the Sustainable City.” (Pickett, p.i., Boone and others co-p.i.). National Science Foundation. \$5,640,000. 2010-2016.

“CAP3: Urban Sustainability in the Dynamic Environment of Central Arizona.” (Grimm, p.i., Boone and others co-p.i.) National Science Foundation, \$5,640,000. 2010-2016.

“Urbanization and Global Environmental Change International Project Office.” (Redman, pi., Boone and others co-p.i.). National Science Foundation. \$778,757. 2012-2016.

“Climate Change, Sustainability, and Investment Risk.” Short Course for International Finance Group, World Bank, \$50,000. (October 2013).

“Service Access in Premodern Cities.” (Smith, p.i., Boone and others co-p.i.). National Science Foundation. \$883,470. 2013-2015.

“Environmental Justice and ecosystem services: Access, equity and participation in the use and management of aquatic environments in the Helsinki Metropolitan Area (ENJUSTESS).” (Peltonen, p.i., Boone, international collaborator). Academy of Finland Aquatic Resources Programme. 772,000 euros. (2012 - 2015).

“Environmental Investments and Justice in Washington, D.C. and Baltimore City.” (Whitmer, p.i., Boone and Grove co-p.i.). Georgetown University Environmental Initiative, \$15,000. 2012-13.

“RCN-SEES: Building a Research Network for Promoting Arctic Urban Sustainability in Russia.” (Ortung, p.i., Boone and others collaborators). \$561,377, 2012-2015.

“Land and Water Use Decision-Making and Ecosystem Services along a Southwestern Socio-Ecological Gradient” (Boone p.i., and others co-p.i). Urban Long Term Research Area Exploratory grants, National Science Foundation. \$300,000 (2010-2011).

“Ecology of Environmental Justice in Metropolitan Areas.” (Boone, p.i., Cadenasso, Grove, and Pickett co-p.i.).National Center for Ecological Analysis and Synthesis. \$125,000. 2010-2012.

“Dynamics of Urban Ecosystem Services and Their Relationship to Ecohydrology: Exploratory Study for a Los Angeles Urban Long-Term Research Site (LA-ULTRA).”(Pincetl, Stephanie p.i., Boone and others co-p.i). Urban Long Term Research Area Exploratory grants, National Science Foundation. \$300,000. (2009-2011).

“Urban Sustainability and Push-Pull Drivers of Residential Change: Washington, D.C., Baltimore, Maryland, and the Chesapeake Bay.” (Whitmer, Allison p.i., Boone and others senior personnel). Urban Long Term Research Area Exploratory grants, National Science Foundation. \$300,000 (2009-2011).

“Long-term data and analysis for the study of environmental justice and amenities in Baltimore, Maryland.” (Boone, p.i.). USDA Forest Service. \$6,024. (2006); Extended \$8,477 (2007); Extended \$8,500 (2008); Extended \$22,978 (2008-2009); Extended \$20,000 (2009-2010).

“Central Arizona Phoenix LTER – Phase 2” (Grimm, p.i. Boone and others co-p.i). National Science Foundation. \$5,266,038 (2004-2010).

“Understanding Urban and Community Forests Contributions to Physical Activity and Health.” (Floyd, Miron p.i.; Boone and others senior consultants). National Urban and Community Forestry Advisory Council. \$148,752 (2009-2010).

“Park Equity in Baltimore: a Longitudinal Analysis.” National Science Foundation, LTER Supplement. \$5,000 (2009-10).

“A Longitudinal Analysis of the Social Dynamics of Environmental Equity in Baltimore” (Boone p.i. and others). Human and Social Dynamics Competition, National Science Foundation. \$749,437 (2006-2010).

“Social Dynamics in Response to Shifting Immigration Policy and Practice: Latino Social Networks, Resource Flow, and Household Reorganization” (Glick, p.i.; Boone senior personnel). Human and Social Dynamics Competition, National Science Foundation. \$747,249. (2008-2010).

“Socio-ecological gradients and land use fragmentation: a cross-site analysis.” (Grimm, p.i. Boone and others co-p.i.). National Science Foundation, LTER Social Science Supplement Proposal. \$67,250 (2009-2010).

“LTER Working Group Proposal: Design Challenges and Solutions for Establishing a Network of Socio-Ecological Research Sites.” (Jess K. Zimmerman, Frederick N. Scatena, Chris Boone, Ted Gragson, and J. Morgan Grove). \$48,400. Long Term Ecological Research network proposal. (2009).

“Urban Organization through the Ages: Understanding Scale, Neighborhoods, and Open Spaces” (Smith, p.i., Boone and others co-p.i.). Late Lessons from Early History SHESC internal proposal. \$500,000 (2008-2013).

“The South Phoenix Collaborative: Leveraging Culture to Support Healthy, Resilient, and Just Communities” (Brewis p.i.; Boone and others co-p.i.). Late Lessons from Early History SHESC internal proposal. \$500,000 (2008-2013).

"Water-Ecosystem Services, Drought & Environmental Justice" (Gragson and Pickett, co-chairs; Boone and others co-organizers), Ecological Society of America Millennium Conference Proposal. \$50,000 (2008).

"Sustainability, Sense of Place, and Cultural Preservation." (Brandt p.i.; Semken and Boone co-p.i.). Institute for Humanities Research, the IHR Fellows Program. \$36,828 (2007-08).

"Ecology and Environmental Justice Research across the LTER Network: long-term and multi-scale understandings of past, present, and future." (Boone p.i.; Morgan Grove co-p.i.). Long Term Ecological Research Network. \$9,747 [workshop] (February 2007).

"Developing and Evaluating Social Science Approaches for the Baltimore Ecosystem Study LTER: Local Focus, Global Thinking." (Pickett, S.T.A., p.i. Grove, J. Morgan, Boone, Christopher G. co-p.i.). National Science Foundation. \$30,000. (2007).

"Trends in Long Term Ecological Data" (Boone, p.i.). LTER Network Supplemental Research. \$5,000 (2006).

"Environmental Justice and the Human Ecology of Baltimore (BES) and Paris (PIREN-Seine)" (Boone p.i.). USDA Forest Service. \$10,970 (2004-06).

"Human Settlements as Ecosystems: Metropolitan Baltimore from 1797 - 2100: PHASE II" (Steward Pickett p.i., Boone and others co-p.i.). National Science Foundation. \$4,920,000 (2004-2010).

"Social Drivers and Land Use/Cover Change: Interdisciplinary Patch Analysis" (Boone p.i.) National Science Foundation. \$50,000 (2004-2006).

"An International Cross-Site Comparison of Environmental Justice Movements in Paris (PIREN-Seine) and Baltimore (BES)" (Boone p.i.) National Science Foundation. \$9,500 (2004-2006).

"Long Term Social Dynamics and Ecological Change Research for the Baltimore Ecosystem Study" (Boone p.i.). Voinovich Center Undergraduate Research Scholars Program. \$3,000 (2004-05).

"Historical Geography of Urban Forestry and Roadside Tree Planting in Baltimore." (Buckley, p.i., Boone co-p.i.), United States Forest Service. \$14,387 (2004-05).

"Populating Small Area Geographies using Historical Manuscript Data." (Boone, p.i.), United States Forest Service. \$12,073 (2003).

"Digitizing Historical Data Sets for Long Term Social and Ecological Research." (Boone p.i.), United States Forest Service. \$11,200 (2003).

"Spatial and Temporal Analyses of Social Drivers in Urban Ecosystems." (Boone p.i.), United States Forest Service. \$8,852 (2003).

"Urban Infrastructure and Human-Ecological Systems: A Comparative Study of Wastewater Management in Baltimore, Maryland and Paris, France." (Boone p.i.), National Science Foundation. \$30,447 (2002-03).

"Expanding Active Learning in Geography 201." (with Geoffrey Buckley), Ohio University 1804 Fund Awards, Undergraduate Learning. \$19,924 (2002-04).

"Historical Social Data Sets for Long Term Ecological Research." (Boone p.i.), United States Forest

Service. \$10,726 (2002-03).

"Infant Mortality and Land Use Change in Baltimore." (Boone p.i.), Voinovich Center Undergraduate Research Scholars Program. \$3,000 (2002-03).

"Utility of Historical Land Use Data for Long Term Ecological Research and the Baltimore Ecosystem Study" (Boone p.i.), United States Forest Service. \$5,850 (2001-02).

"Utility of Historical Census Data for Long Term Ecological Research" (Boone p.i.), United States Forest Service. \$5,000 for graduate assistance (2001).

"Infant Mortality as Environmental Indicator in Baltimore, 1880-1930" (Boone p.i.), Voinovich Center Undergraduate Research Scholars Program. \$3,000 (2001-02).

"Demonstrating the Value of Satellite Information for Development and Planning in Appalachian Ohio" (Boone co-p.i., James Lein, p.i.), NASA-Glenn Research Center. \$105,000 (2000-2001).

"Network Resources and Training Site" (Ali Modarres, p.i, Boone co-p.i.), NASA MUSPIN grant. \$150,000 (1998-2000).

"Investigating Environmental Inequity in Los Angeles County" (Boone p.i.) CSULA Mini Grant for graduate assistance, \$1,535 (Winter 1998).

"Active Learning on the Web for the GE Curriculum" (Gary Novak, p.i ,Boone co-p.i) CSULA Innovative Instruction Award Program, \$35,099 (1998-1999).

**Grant Proposals Submitted in 2019** (1, \$100 million)

"Navigating Resilience in the Pacific." (Boone, PI). 100& Change competition, Macarthur Foundation. \$100,000,000 (2020-2025). Proposal selected as one of four finalists at ASU. Now advanced to the third state (wise-head review).

**Grant Proposals Submitted in 2018** (3, \$7.9 million)

"CNH-L: Sustainability of Pastoralism in Savanna and Steppe Ecosystems: Pastoral Mobility, Vegetation Dynamics, and System Coupling." (Chuan Liao PI; Boone and others senior scientist). National Science Foundation. \$1,187,158 (2018-2023).

"Central Arizona Phoenix Lter Ecological Research Project IV: Understanding urban system dynamics and promoting urban sustainability in the Phoenix Metro Area" (Dan Childers PI, Boone and others senior scientist). National Science Foundation. \$6,782,824. 2016-2023.

"Global Development Research." (Mohamed Abdalla PI, Boone co-PI). Toledo Community Foundation (First Solar Corp.). \$49,993. 2018-19.

**Grant Proposals Submitted in 2017** (4, \$1.6 million)

"Using Field Experiments to Assess Efficacy of Mobile Apps among Vulnerable Populations as City Strategies in Responding to Climate Events." (Karen Mossberger PI, Boone and others co-PI). National Science Foundation. \$999,127. 2017-2019.

"Climate Change and Equity in Cities." (Sara Hughes, PI; Boone and others collaborator). Social Sciences and Humanities Research Council of Canada.

"Regional Sustainability Teachers Academy." (Boone PI). Cedar Tree Foundation. \$100,000

"Targeting Brazil Biodiversity for Research and Innovation Fellowships." (Boone PI). USAID. \$544,329.



**Grant Proposals Submitted in 2016** (8, \$36.2 million)

“Connected Communities, climate impacts, and inequalities.” (Boone, PI). National Science Foundation. \$1,000,000. 2017-2019.

“Global Network for Urbanization and the Environment.” (Boone, PI). National Science Foundation. \$961,352. 2017-2020.

“IRES: Global Development Scholars for Peacebuilding and Conflict Resolution.” (Boone, PI). National Science Foundation. \$236,181. 2017-2020.

“Baltimore Ecosystem Study Long Term Ecological Research IV: Dynamic heterogeneity: Investigating outcomes and drivers of ecological change in urban ecosystems.” (Emma Rosi-Marshall PI, Boone and others co-PI). National Science Foundation. \$6,762,000. 2016-2023.

“Central Arizona Phoenix Lter Ecological Research Project IV: Understanding urban system dynamics and promoting urban sustainability in the Phoenix Metro Area” (Dan Childers PI, Boone and others senior scientist). National Science Foundation. \$6,782,824. 2016-2023.

“Strengthening the Public’s and K-12 Students’ Environmental Literacy for Community Resilience.” (Erin Redman PI, Boone and others co-PI). National Oceanic and Atmospheric Administration. \$500,000. 2016-2019.

“Environmental Influences, Health Disparities, and Obesity in the Vulnerable Child.” (Reifsneider PI, Boone and others co-PI). National Institutes of Health. \$19,856,743. 2016-2023.

“Preliminary Proposal NSF INCLUDES: Broadening STEM Participation through a Climate Action and Solutions Pathway (CLASSP).” (Carter PI, Boone and others senior scientist). National Science Foundation.

**Grant Proposals Submitted in 2015** (2, \$569,000)

“Workshop on Urbanization, Food-Energy-Water Systems and RiSK (UNMASK)” (Paty Romero-Lankao PI, Boone and others co-PI). National Science Foundation. \$88,623. 2015-16.

“Design for Greater Ability: A Transdisciplinary Approach to Assistive Technology” (Prasad Boradkar PI, Boone and others co-PI). National Science Foundation. \$480,214. 2016-2021.

**Grant Proposals Submitted in 2014** (3, \$24.1 million)

“USAID Global Development Lab Research and Innovation Fellowship at ASU” (Boone p.i. and others), USAID. \$1,920,457. 2014-16.

Pakistan Centers for Advanced Studies in Energy (PCASE). (p.i. Sethuraman Panchanathan, Boone and others collaborator) USAID. \$17,997,637. 2015-2019

Resiliency and Sustainability Simulation for Megacity Infrastructures. (p.i. Nathan Johnson, Boone and others co-p.i.). Limited Submission to ASU for a Partnerships for International Research and Educations (PIRE) proposal, National Science Foundation. \$4,252,706. 2014-2019.

**Grant Proposals Submitted in 2013** (1, \$750,000)

“Leadership, Education, & Research Network on Synthesis for Sustainability (LEARNS for Sustainability)” (Shirley Vincent, p.i. Boone and others co-p.i.). National Science Foundation. Science, Engineering, and Education for Sustainability Research Coordination Network. \$750,000 (2013-2018).

**Grant Proposals Submitted in 2012** (7, \$3.8 million)

“International Research Experience for Students in Urban Sustainability” (van der Leeuw, p.i., Boone, co-p.i.). National Science Foundation. \$249,264. 2013-2015.

“Service Access in Premodern Cities.” (Smith, p.i., Boone and others co-p.i.). National Science Foundation. \$883,470. 2-13-2015.

“Determining the Fundamental Questions and the Essential Collaborations to Guide Large-Scale Data Creation and Infrastructure for Urban Sustainability Research.” (Pincetl, p.i., Boone and others co-p.i.). National Science Foundation. \$409,404. 2013-2014.

“Urbanization and Global Environmental Change International Project Office.” (Redman, pi., Boone and others co-p.i.). National Science Foundation. \$779,000. 2012-2016.

“Environmental Investments and Justice in Washington, D.C. and Baltimore City.” (Whitmer, p.i., Boone and Grove co-p.i.). Georgetown University Environmental Initiative, \$15,000. 2012-13.

“Inequality of Service Access in Premodern Cities.” (Smith, p.i., Boone and others co-p.i.). National Science Foundation. \$858,031. 2012-2015.

“RCN-SEES: Building a Research Network for Promoting Arctic Urban Sustainability in Russia.” (Ortung, p.i., Boone and others collaborators). \$561,377, 2012-2015.

**Grant Proposals Submitted in 2011 (6, \$1.4 million)**

(York, p.i.; Boone and others co-p.i.). “Fire Management in Southeastern Arizona: the Impact of Disturbance on Collaboration in a Social-Ecological System.” National Science Foundation, \$375,000. August 2011.

(Peltonen, p.i., Boone, international collaborator). “Environmental Justice and ecosystem services: Access, equity and participation in the use and management of aquatic environments in the Helsinki Metropolitan Area (ENJUSTESS).” Academy of Finland Aquatic Resources Programme. 880,000 euros, October 2011.

(Fisher, p.i., Boone and others co-p.i.) “Urban Sustainability: Multi-level governance and the water, energy and carbon cycles in the Northeast Megaregion of the United States.” NSF Sustainability Research Network pre-proposal. December 2011.

(Solecki p.i., Boone and others co-p.i.) “Global Urbanization-Climate Change-Sustainability Research Network” NSF Sustainability Research Network pre-proposal. December 2011.

(Turner, p.i., Boone collaborator). “Landscape Sustainability in Urbanizing Arid Regions.” NSF Sustainability Research Network pre-proposal. December 2011.

(Pincetl, p.i., Boone collaborator) “Urbanization and the Sustainability Challenge: Getting to Change” NSF Sustainability Research Network pre-proposal. December 2011.

**Grant Proposals Submitted in 2010 (6, \$11.8 million)**

(Boone, p.i. Zhang, co-p.i.). Socioecological drivers and consequences of land fragmentation under conditions of rapid urbanization. National Science Foundation, \$7,600. October 2010.

(York, p.i.; Boone and others co-p.i.). “Resilience, Collective Action and the Production of Space in the Arizona Borderlands.” National Science Foundation, \$310,636. August 2010.

(Boone, p.i., Cadenasso, Grove, and Pickett co-p.i.). “Ecology of Environmental Justice in Metropolitan Areas.” National Center for Ecological Analysis and Synthesis. \$125,000. January 2010.

(Pickett, p.i., Boone and others co-p.i.). "Baltimore Ecosystem Study Phase III: Adaptive Processes in the Baltimore Socio-Ecological System from the Sanitary to the Sustainable City." National Science Foundation. \$5,640,000. February 2010.

(Grimm, p.i., Boone and others co-p.i.) "CAP3: Urban Sustainability in the Dynamic Environment of Central Arizona." National Science Foundation, \$5,640,000. February 2010.

(Boone, p.i., Zhang, co-p.i) "Application of remote sensing methods for understanding socioecological drivers and consequences of land fragmentation under conditions of rapid urbanization." NASA Earth and Space Science Fellowship. \$30,000. January 2010.

#### **Grant Proposals Submitted in 2009 (5, \$1.1 million)**

(Boone p.i., and others co-p.i.) "Urbanization, land use, and water along a Southwestern socio-ecological gradient." Urban Long Term Research Area Exploratory grants, National Science Foundation. \$300,000. July 2009.

(Pincetl, Stephanie p.i., Boone and others co-p.i.) "Dynamics of Urban Ecosystem Services and Their Relationship to Ecohydrology: Exploratory Study for a Los Angeles Urban Long-Term Research Site (LA-ULTRA)." Urban Long Term Research Area Exploratory grants, National Science Foundation. \$300,000. July 2009.

(Whitmer, Allison p.i., Boone and others senior personnel). "Urban Sustainability and Push-Pull Drivers of Residential Change: Washington, D.C., Baltimore, Maryland, and the Chesapeake Bay." Urban Long Term Research Area Exploratory grants, National Science Foundation. \$300,000. July 2009.

(Szkupinski Quiroga, Seline p.i.; Boone and others co-p.i.) "Adaptation, Validation and Implementation of an Objective Measure to Assess Latino Nutrition Environments." Robert Wood Johnson Foundation Healthy Eating Research. \$100,000. June 2009.

(Floyd, Miron p.i.; Boone and others senior consultants). "Understanding Urban and Community Forests Contributions to Physical Activity and Health." National Urban and Community Forestry Advisory Council. \$148,752. Submitted March 2009. Invited for full proposal, April 2009.

#### **Grant Proposals Submitted in 2008 (15, \$7.8 million)**

(Golden p.i.; Boone and others co-p.i.). "U-HEAT: Urban Health and Energy Assessment Tool." NASA Decision Support through Earth Science Research Results. \$1,232,625 (2009-2012). Submitted July 2008.

(Jess K. Zimmerman, Frederick N. Scatena, Chris Boone, Ted Gragson, and J. Morgan Grove). "LTER Working Group Proposal: Design Challenges and Solutions for Establishing a Network of Socio-Ecological Research Sites." \$48,400. Long Term Ecological Research network proposal. (2009). Submitted July 2008.

(Brewis, p.i., Boone and others co-p.i.) "Social Networks, Food Beliefs/Norms, and Children's Dietary Quality in Latino Households at Very High Risk for Obesity." \$499,929. National Research Initiative Competitive Grants Program, USDA, CSREES. Submitted June 2008.

(Brewis p.i., Boone and others co-p.i.). "Testing the Effects of Access to Healthy Food Sources on Children's Household Diets in Low-Income, Minority Neighborhoods." \$383,353. Robert Wood Johnson Foundation. Healthy Eating Research: Building Evidence to Prevent Childhood Obesity. Submitted May 2008.

(Boone p.i. and others co-p.i.). "Active Recreational Park Use and Social and Built Environment

Characteristics in Latino Neighborhoods with Very High Childhood Obesity Risk.” \$250,000. Robert Wood Johnson Foundation, Active Living Research. Submitted May 2008.

(Golden, p.i., Boone and others co-p.i.). “A National Network for Science, Engineering and Policy Innovations to Reduce Climate Change Health Impacts.” \$1,264,915. Centers for Disease Control. Submitted May 2008.

(Golden, p.i., Boone and others co-p.i.). “CDI Type I: A Multi-Institutional Virtual Organization for the Analysis of Climate Change in Urban Areas.” \$633,383. National Science Foundation. Submitted April 2008.

(Glick, p.i., Boone senior personnel). “Human and Social Dynamics in Response to Shifting Immigration Policy and Practice: Latino Social Networks, Resource Flow, and Household Reorganization in Phoenix, AZ.” \$750,000. National Science Foundation, Human and Social Dynamics. (2008-2011). Submitted February 2008.

(Grimm, p.i. Boone and others co-p.i.). National Science Foundation, LTER Social Science Supplement Proposal. “Socio-ecological gradients and land use fragmentation: a cross-site analysis.” \$100,000 (2009-2010). Submitted February, 2008.

(Quiroga, Seline Szkupinski, p.i. Winham and Boone co-p.i.). Institute for Social Science Research (ASU) Catalyst Grant. “Validation and Implementation of Measures to Assess a Latino Nutrition Environment.” \$20,000 (2008-09). Submitted February 2008.

(Golden, p.i. Boone and others co-p.i.). National Science Foundation, Cyber-enabled Discovery and Innovation. \$730,000 (2008-2010). Submitted January 2008.

“CAA-Sustainable Systems: Leading to a NSF Science Technology Center” (Golden, p.i. Boone and others co-p.i.). Science Foundation of Arizona. \$500,000 (2008-09). Submitted January 2008.

“Testing the Effects of Access to Healthy Food Sources on Children’s Household Diets in Low-Income, Minority Neighborhoods” (Brewis, p.i. Boone and others co-p.i.). Robert Wood Johnson Foundation. \$413,000 (2008-09). Submitted January 2008.

“Urban Organization through the Ages: Understanding Scale, Neighborhoods, and Open Spaces” (Smith, p.i., Boone and others co-p.i.). Late Lessons for Early History SHESC internal proposal. \$500,000 (2008-2013). Submitted January 2008.

“The South Phoenix Collaborative: Leveraging Culture to Support Healthy, Resilient, and Just Communities” (Brewis p.i.; Boone and others co-p.i.). Late Lessons for Early History SHESC internal proposal. \$500,000 (2008-2013). Submitted January 2008.

#### **Grant Proposals Submitted in 2007 (8, \$4.0 million)**

“Adaptation and Mitigation of Environmental, Economic and Health Impacts from Materials-Induced Climate Change.” (Golden p.i., Boone and others co-p.i.). Science Foundation Arizona. \$210,000 (2008). Submitted December 2007.

“Ecology of Environmental Justice in Metropolitan Areas.” (Boone p.i.; Grove co-p.i.; Pickett co-p.i.; Dow co-p.i.). National Center for Ecological Analysis and Synthesis. \$118,600 (2007-2009). Submitted July 2007.

“Social Networks, Food Beliefs/Norms, and Children's Dietary Quality in Latino/a Households at Very High Risk for Obesity.” (Brewis p.i.; Boone and others co-p.i.). USDA CSREES-Human Nutrition Programs: Human Nutrition and Obesity. \$499,800 (2008). Submitted May 2007.

“HEATER: Heat Emergency Assessment Tool - Enhanced Resolution.” (Golden p.i.; Boone and others co-p.i.). NASA Decision Support through Earth Science Research Results. \$985,500 (2008-2010). Submitted May 2007.

“Environmental Perceptions and Active Recreational Park Use in Latino/a Neighborhoods with Very High Childhood Obesity Risk.” (Brewis p.i./co-director.; Boone co-p.i./co-director and others). Active Living Research, Robert Wood Johnson Foundation. \$150,000 (2008-2009). Submitted May 2007.

“Reducing Environmental, Economic and Health Impacts From the Materials-Induced Urban Heat Island Effect: A Joint U.S.-China Initiative.” (Golden p.i.; Boone and others co-p.i.). MUSES competition, National Science Foundation. \$2,000,000 (2007-2012). Submitted February 2007.

“Sustainability, Sense of Place, and Cultural Preservation.” (Brandt p.i.; Semken and Boone co-p.i.). Institute for Humanities Research, the IHR Fellows Program. \$36,828 (2007-08). Submitted February 2007.

“IGERT: Engineered Materials for Sustainable Urban Environments.” (Golden p.i./co-director; Boone co-p.i./co-director). IGERT, National Science Foundation pre-proposal. Submitted April 2007.

#### **Grant Proposals Submitted in 2006 (7, \$2.8 million)**

“A Longitudinal Analysis of the Social Dynamics of Environmental Equity in Baltimore” (Boone p.i. and others). Human and Social Dynamics Competition, National Science Foundation. \$749,437 (2006-2009). Submitted March 2006.

“Developing and Evaluating Social Science Approaches for the Baltimore Ecosystem Study LTER: Local Focus, Global Thinking.” (Pickett, S.T.A., p.i. Grove, J. Morgan, Boone, Christopher G. co-pis). National Science Foundation. \$30,000. (submitted July 2006).

“Trends in Long Term Ecological Data” (Boone, p.i.). LTER Network Supplemental Research Proposal. \$5,000 (2006).

“Long-term data and analysis for the study of environmental justice and amenities in Baltimore, Maryland.” (Boone, p.i.). USDA Forest Service. \$6,024. (2006). Submitted July 2006.

“IGERT: Computational Social Science” (van der Leeuw p.i.; Boone collaborator). National Science Foundation IGERT Pre-proposal. Submitted March 2006.

“Explaining Health Disparities: Infectious Disease Mortality in Baltimore.” (Mooney p.i; Boone and others co-p.i.). National Institutes of Health. \$2,046,463 (2006-2011). Submitted January 2006.

“Ecology and Environmental Justice Research across the LTER Network: long-term and multi-scale understandings of past, present, and future” (Boone, p.i.; Grove co-p.i.). LTER Network Office. \$9,747 (2007). Submitted October 2006.

#### **Other Major Grant Proposals Submitted**

“Explaining Health Disparities: Infectious Disease Mortality in Baltimore.” (Mooney p.i; Boone and others co-p.i.). National Institutes of Health. \$2,046,463 (2006-2011).

“Why not in my backyard? Community Organizing and Urban Environmentalism” (James Fraser, p.i.; Boone and others co-p.i.), National Science Foundation. \$80,908 (2004-2006).

“Long Term Human and Social Dynamics of Urbanization and Environmental Justice” (Boone p.i., co-p.i. Buckley, Grove, Lord) National Science Foundation, Human and Social Dynamics

Competition \$804,138 (2005-2008).

“Public Health as a Major Driver of Land Use/Land Cover Change in Urban Systems: A Study of Managed and Engineered Solutions in the Baltimore Metropolitan Region” (Boone p.i.; Geoff Buckley and James Dyer co-p.i.). National Science Foundation. \$312,674. Submitted August 10, 2001.

“Utility of Historic Census Data for Long Term Ecological Studies: A Case Study of the Baltimore Metropolitan Region through the Baltimore Ecosystem Study” (Boone p.i.) NSF/Census Bureau-Baltimore Ecosystem Study Supplemental Grant. \$98,000 (2000-2001). Approved January 2000 but not funded for budgetary reasons.

“Investigating Environmental Inequity in Los Angeles County” (Boone p.i.). National Science Foundation. \$130,183 (1998-2000).

### **Manuscript Reviews**

Reviewed manuscripts for the *Proceedings of the National Academy of Sciences*, *Annals of the Association of American Geographers*, *Nature: Climate Change, Ecology and Society*, *Social Science Quarterly*, *Journal of Environmental Management*, *Journal of Environmental Studies and Sciences*, *Professional Geographer*, *Ecosphere*, *Social Forces*, *Human Ecology Review*, *Population and Environment*, *Journal of Landscape and Urban Planning*, *International Journal of Health Geographics*, *International Journal of Behavioral Nutrition and Physical Activity*, *International Journal of Urban Sustainable Development*, *Local Environment*, *Historical Geography*, *Urban Studies*, *Urban History Review*, *Urban Ecosystems*, *Environmental Justice*, *Cities and the Environment*, *Historical Methods*, *Applied Geography*, *Transactions in GIS*, *Urban Forestry and Urban Greening*, *Journal of Historical Geography*.

### **Published Book Reviews (9)**

Boone, Christopher G. 2008. Review of *Desert Cities: The Environmental History of Phoenix and Tucson* by Michael F. Logan. *Historical Geography* 36: 225-227.

Boone, Christopher G. 2007. Review of *Resources for the City: Contributions to an Environmental History of Modern Europe*. Eds. Dieter Schott, Bill Luckin, and Geneviève Massard-Guilbaud. Hampshire: Ashgate. *Urban Studies* 44, 9:1863-1865.

Boone, Christopher G. 2004. Review of *Taking Sustainable Cities Seriously: Economic Development, the Environment, and Quality of Life in American Cities* by Kent E. Portney. *Cities* 21: 364-365.

Boone, Christopher G. 2003. Review of *Concrete and Clay: Reworking Nature in New York City* by Matthew Gandy. *Urban Studies* 40, 8:1629-1630.

Boone, Christopher G. 2003. Review of *Effluent America: Cities, Industry, Energy, and the Environment* by Martin V. Melosi. *The Pennsylvania Geographer* 41, 1:126-128.

Boone, Christopher G. 2001. Review of *Historic American Towns Along the Atlantic Coast* by Warren Boeschstein. *Journal of Historical Geography* 113-14.

Boone, Christopher G. 1999. Review of *Cities of Light and Heat* by Mark Rose. *Journal of Historical Geography* 256-57.

Boone, Christopher. 1995. Review of *The Latin American City* by Alan Gilbert. *Cities* 12, 2: 119-120.

Boone, Christopher. 1990. Review of *The Modernist City: an Anthropological Critique of Brasilia*, by James Holston. *The Canadian Geographer* 34, 3: 283-284.

## **Invited Presentations (72)**

Sustainability for Island States, University of Guam (November 2020).

Priorities for Sustainability Education in Colleges and Universities, Colorado State University (November 2020).

Launching the Global Futures Laboratory. Devils in the Details Series, ASU Walter Cronkite School of Journalism (September 2020).

<https://asunow.asu.edu/devils-in-the-details/launching-global-futures-laboratory>

Earth Day: The Future of the Past 50 years. Global Futures Laboratory YouTube Premiere. Tempe, AZ (April 2020).

Sustainability and Capacity Building. 1st International Meeting, UNAM-ASU Binational Laboratory of Sustainability, Vulnerability, and Adaptation to Climate Change. Merida, Mexico (June 2019).

The Joy of Fundraising. With Kristen Wolfe. Advanced Leadership Institute, Arizona State University, Tempe, AZ (May 2019).

Creating the Next Generation of Sustainability Problem Solvers. Global Consortium for Sustainability Outcomes Annual Meeting, Luneburg, Germany (April 2019).

Women student leaders in sustainability and their journeys. ASU Women and Philanthropy, Tempe, AZ (February 2019).

The sustainability mission and educational opportunities at Arizona State University. Presentation to representatives from the State Legislature of Arizona, Tempe, AZ (February 2019).

The nature of sustainability and the sustainability of nature. Thunderbird-ASU Alumni Association annual meeting, Penang, Malaysia (October 2018).

Reforming master's education: Institutional experiences. What Is The Master's For? Re-thinking Master's Education in Europe. Central European University, Budapest, Hungary (September 2018).

Innovations in Sustainability Education. Sun Valley Resilience Forum, Ketchum, ID (July 2018).

ASU's Sustainability Mission and Partnership with the Mayo Clinic. Tempe, AZ (April 2018).

Diversity and excellence: difficult conversations. Arizona State University and Purdue University, Tempe, AZ (April 2018).

Lessons Learned: Creating a Culture of Inclusion. Advanced Leadership Initiative. Arizona State University, Tempe, AZ (March 2018).

Interdisciplinary Research Matters: Pathways to Successful Organizational Models. National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD (March 2018).

ASU's Sustainability Success Story. President's Club Leaders' Lunch, Arizona State University, Phoenix, AZ (March 2018).

Building Sustainability in Higher Education. University of Texas, El Paso, TX (February 2018).

Teaching to the Future: Education for Sustainability. National Council on Science and the

Environment Annual Meeting, Washington, DC (January 2018).

Taking Sustainability to Scale. U.S. Army Reserve Mission Resilience and Sustainability Training, Tempe, AZ (November 2017).

Lessons from the School of Sustainability at Arizona State University. Nanzan University, Nagoya, Japan (November 2017).

Frontiers in Sustainability Science. Nanzan University, Nagoya, Japan (November 2017).

Recent trends in graduate sustainability science programs at US universities. University of Tokyo, Japan (October 2017).

The importance of hope and agency for achieving the Sustainable Development Goals. Arizona School for the Arts (grades 5-12), Phoenix, AZ (October 2017).

Current and future needs for sustainability education. The Cynthia & George Mitchell Foundation, Board of Directors 2017 Program Planning Retreat, Cook's Branch Conservancy, Texas (September 2017).

The intersection of sustainability, biomimicry, mindfulness, and design. Herberger Institute of Design and the Arts, Arizona State University, Tempe, AZ (August 2017).

Teaching systems thinking to fill the climate literacy gap. Security and Sustainability Forum webinar (June 2017).

Leadership and responsibility to the institution. ASU Leadership Academy, Fountain Hills, AZ (May 2017).

Educating for Sustainable Development. US-Japan Fulbright Commission, San Francisco, CA (May 2017).

The ASU School of Sustainability: Preparing future leaders for the world we want and need. City of Phoenix, Phoenix, AZ (April 2017).

Parks and people: understanding environmental justice in pursuit of health equity. National Council on Science and the Environment Annual Conference, Washington, DC (January 2017).

Sustainable Food Systems. Mayo Clinic, Scottsdale, AZ (November 2016).

Presentation to open the School of Sustainability at ASU Polytechnic. Mesa, AZ (September 2016).

Global Sustainability Leadership and Higher Education in Hawaii. Presidential Lecture Series, Hawaii Pacific University, Honolulu, HI (June 2016).

Preparing for a Green Workforce for the 21st Century, 2016 Council of Environmental Deans and Directors Summer Meeting, Washington, DC (June 2016).

Transforming Infrastructure in NYC for Sustainability: Critical Needs and Opportunities Workshop, City University of New York, NY, NY (April 2016).

Innovations in Sustainability Education. Mayo Clinic Hospital, Phoenix, AZ (April 2016).

Culture and Values in Sustainability, Big Ideas on the Big Island, Kona, HI (March 2016).



A Decade of Urbanization and Global Environmental Change symposium, Tempe, AZ (February 2016).

Climate Risk Reduction at the National and Subnational Scale, Security and Sustainability Forum webinar (October 2015).

Telecoupled Systems. 2015 Conference on Complex Systems, Tempe, AZ (October 2015).

Sustainability as a Systems Design Science. Autodesk IDEAS Innovation + Design Series, How Can we Foster 21st Century Skills? San Francisco, CA (June 2015).

The ASU School of Sustainability: Vision and Mission. International Network for Social Sustainability, Tempe, AZ (April 2015).

Innovative Approaches to Sustainability Education at US Universities. Sustainability and Security Forum (January 2015).

Transitioning to a Sustainable Urban Planet. Prep Talk, ASU Preparatory Academy, Phoenix, AZ (January 2015).

Environmental justice of ecosystem services. College of Architecture and Planning, University of Colorado, Denver (October 2014).

Environmental Justice in the Urban Century. Finnish Institute of the Environment (SYKE), Helsinki, Finland (August 2014).

Park equity: it's about process, not just outcome. Los Angeles Neighborhood Land Trust, Park Equity Symposium, Sol Price School of Public Policy, University of Southern California, Los Angeles, CA (July 2014). <http://youtu.be/DLiOlihSDpI>

Sustainable Cities. Inter-American Development Bank, Washington, DC (July 2013).

Urban Sustainability in Extreme Environments. Conference on Arctic Urban Sustainability in Russia, George Washington University (May 2013).

Transitioning to a Sustainable Urban Future. George Washington University (April 2013).

Green equity: environmental justice perspectives on Baltimore. Johns Hopkins University, Baltimore, MD (March 2013).

Environmental Justice of Urban Ecosystem Services: A Sustainability Imperative. Environmental Studies, University of California, Santa Barbara (February 2013).

Environmental Justice of Green Infrastructure: An Urban Sustainability Imperative. An Open Dialogue on Critical Urban Environmental Issues. Yale School of Forestry and Environmental Studies, New Haven, CT (January 2013).

Urban sustainability and environmental justice in Baltimore. University of Maryland Baltimore County, Baltimore, MD (November 2012).

Trees grow on money: environmental justice perspectives on urban canopy cover. Georgetown University, Washington DC (October 2012).

Essential Elements of Synthesis for Education: Institutional Perspectives. Socio-Environmental Synthesis Center, Annapolis, MD (June 2012).

Environmental Justice and Sustainability. Georgetown University (March 2012).

Urban transitions: An opportunity for sustainable transformation. With Pickett, S.T.A., and B.P. McGrath. Ecological Society of America Annual Meeting, Austin, TX (August 2011).

Urban sustainability as a guiding framework for long term socio-ecological science. Invited plenary presentation, Finnish Environment Institute, Helsinki, Finland (June 2011).

An expanded view of environmental justice. National Center for Ecological Analysis and Synthesis, Santa Barbara, CA (March 2011).

Sustainability Education at Arizona State University. Army Sustainability & Environmental Security Roundtable, Carlisle, PA (November 2010).

Changing Ecosystem Preferences over Time. International Conference on Urbanization and Global Environmental Change, Tempe, AZ (October 2010).

Changing ecosystem preferences through time. Long Term Ecological Research Network symposium, National Science Foundation, Arlington, VA (March 2010).

Long Term Socio-Ecological Research in Metropolitan Phoenix. 1st Workshop on Water and Urban Sprawl: EU/US models, Udall Center for Public Policy, University of Arizona (January 2010).

Sustainability and Journalism. Invited presentation at the Covering the Green Economy Seminar, Donald W. Reynolds National Center for Business Journalism, Phoenix, AZ (June 2010).

Environmental justice: a latter-day indulgence or core socio-ecological principle? Central Arizona Phoenix LTER symposium, Tempe, AZ (January 2009).

Inclusionary and collaborative strategies in biocultural anthropology: The South Phoenix project. With Brewis, A., A. Wutich, S Szkupinski-Quiroga. Presidential session, American Anthropological Association meetings, San Francisco (2008).

Environmental Justice and Urban Sustainability. Vassar College, Poughkeepsie, NY (March 2007).

An ironic landscape: environmental justice and parks in Baltimore, Maryland. School of Geographical Sciences, Arizona State University (September 2007).

Legacy Effects on Environmental Equity in Baltimore and Phoenix: A Cross-Site Analysis. Central Arizona-Phoenix LTER 9<sup>th</sup> Annual Poster Symposium, Tempe, AZ (January 2007).

Importance of Legacies for Social Sciences Research in the LTER. Paper presentation at the First Workshop of the Joint ASU-Chinese Academy of Sciences Center for Urban Sustainability, Beijing, China (December 2006).

### **Other Professional Presentations (102)**

Kapucinski, Anne, Boone, Christopher, Bromaghim, Erin, Louis, Garrick. Strengthening Sustainability Programs and Curricula in Higher Education. NCSE Drawdown 2021 Annual Conference (virtual), (January 2021).

Kapucinski, Anne, Boone, Christopher, Taylor, Dorceta, Beninson, Lida. Strengthening Sustainability Programs and Curricula in Higher Education. Global Conference on Sustainability in Higher Education, Association for the Advancement of Sustainability in Higher Education Annual Meeting (virtual), (October 2020).

Boone, Christopher G. Segregation and unexpected environmental outcomes. Paper presentation for Symposium, The Ecology of Segregation: Ecological Relationships of Social Exclusion. Ecological Society of America 2019 Annual Meeting, Louisville, KY (August 2019).

Chuang, Wen-Ching. Boone, Christopher G., Buckley, Geoffrey L., Grove, J. Morgan, Locke, Dexter, Whitmer, Ali, Zhang, Sainan. Tree Canopy Change and Neighborhood Stability: A Comparative Analysis of Washington DC and Baltimore MD. Paper presentation, Baltimore Ecosystem Study Annual Meeting, Baltimore, MD (October 2015).

Warren, Paige, Kinzig, Ann and Boone, Christopher G. Socioecological Linkages in Cities and the Rise in Interdisciplinary Research. Paper Presentation at the 100th Annual Meeting of the Ecological Society of America, Baltimore, MD (August 2015).

Boone, Christopher G. and Abigail M. York. Environmental Justice, Spatial Patterning, and Sustainable Urban Form. Presentation at the CAP LTER Annual Meeting and Poster Symposium, Tempe, AZ (January 2014).

Boone, Christopher G. CAP LTER and Partner Urbanization Projects. Presentation to the NSF Site Review Team, Tempe, AZ (September 2013).

Dexter H. Locke, J. Morgan Grove, Christopher Boone. Doing the Hard Work Where It's Easiest? Examining the relationships between urban greening programs and social and ecological characteristics of Baltimore, MD and the District of Columbia. Paper presentation at the Annual Meeting of the Association of American Geographers, Los Angeles, CA (April 2013).

Boone, Christopher G., Buckley, Geoffrey L., Grove, J. Morgan, Fragkias, Michail. A long term perspective on polluting industries and environmental justice in Baltimore. Baltimore Ecosystem Study Annual Meeting, Baltimore, MD (October 2012).

Boone, Christopher G. and Michail Fragkias. A re-examination of urban ecosystem services delivery for good urban governance: implications for environmental justice and vulnerability. Paper presentation, Planet Under Pressure. London, UK (March 2012).

Kirsten Schwarz, Michail Fragkias, Weiqi Zhou, Melissa McHale, J. Morgan Grove, Jarlath O'Neil-Dunne, Christopher G. Boone, Mary L. Cadenasso. Urban Tree Canopy Cover and Environmental Justice: Linking Science, Practice, and Data through a comparison of Baltimore, Philadelphia, Sacramento, and Washington, D.C. Association of American Geographers Annual Meeting, 24-28 February, New York City, NY (February 2012).

Zhang, Sainan, Boone, Christopher G., Lerman, Susannah, York, Abigail M. A multi-scale study of the relationship among land composition, land fragmentation, and bird biodiversity in the Phoenix area. Association of American Geographers Annual Meeting, 24-28 February, New York City, NY (February 2012).

Boone, Christopher G. and Michail Fragkias. A critical examination of urban ecosystem services delivery: implications for environmental justice, vulnerability, and sustainability. Association of American Geographers Annual Meeting, 24-28 February, New York City, NY (February 2012).

Sainan Zhang, Christopher G. Boone, Susannah Lerman, Abigail M. York. A multi-scale study of the relationship among land composition, land fragmentation, and bird biodiversity in the Phoenix area. Association of American Geographers Annual Meeting, 24-28 February, New York City, NY (February 2012).

Schwarz, K., M. Fragkias, W. Zhou, M. McHale, J.M. Grove, J. O'Neil-Dunne, C.G. Boone, and M.L.

Cadenasso. Urban Tree Canopy Cover and Environmental Justice: Linking Science, Practice, and Data through a comparison of Baltimore, Philadelphia, Sacramento, and Washington, D.C. Association of American Geographers Annual Meeting, 24-28 February, New York City, NY (February 2012).

Boone, Christopher G. Normative frames for the ULTRA network: Exploring the merits of environmental justice, vulnerability, and sustainability. Paper presentation at the Ecological Society of America Annual Meeting, Austin, TX (August 2011).

Whitmer, Ali, Grove, J. Morgan, Boone, Christopher G., Buckley, Geoffrey L., Galvin, Mike. Understanding the social and ecological causes and consequences of urban change in Washington and Baltimore. Paper presentation at the Ecological Society of America Annual Meeting, Austin, TX (August 2011).

Pataki, Diane, Boone, Christopher G., Hogue, Terri S., Jenerette, G.D., McCarthy, H.R., McFadden, Joseph P., Mini, Caroline, Pincetl, Stephanie. Where does all the water go? The ecohydrology of Los Angeles. Paper presentation at the Ecological Society of America Annual Meeting, Austin, TX (August 2011).

Boone, Christopher G. A long view of polluting industry and environmental justice in Baltimore. Paper presentation at the Annual Meeting of the Association of American Geographers, Seattle, WA (April 2011).

Zhang, Sainan, Christopher G. Boone, and Abigail M. York. Impacts of land fragmentation on biodiversity in the Phoenix metropolitan region. Poster presentation at the 13<sup>th</sup> annual symposium of the Central Arizona Phoenix Long Term Ecological Research project, Tempe, AZ (January 2011).

Boone, Christopher G. Environmental justice, childhood obesity, and food deserts in Phoenix, Arizona. Paper presentation at the 2010 Annual Meeting of the Association of American Geographers, Washington, D.C. (April 2010).

Boone, Christopher G., Buckley, Geoffrey L. Grove, J. Morgan. A long view of polluting industry and environmental justice in Baltimore. Paper Presentation at Baltimore Ecosystem Study Annual Meeting, Baltimore, MD (October 2010).

Toke, Nathan A., Boone, Christopher G., and Arrowsmith, J Ramon. Distribution of Seismic Hazard, Regulation, and Vulnerability in Greater Los Angeles. Poster presentation, Southern California Earthquake Center, Palm Springs, CA (September 2010).

York, Abigail and Boone, Christopher G. Understanding urbanization and landscape fragmentation along a socio-ecological gradient. Consortium for Biosocial Complex Systems, Arizona State University (March 2010).

S. Zhang, A. M. York, C.G. Boone. M. Shrestha, Methodological Issues in Land Fragmentation Gradient Analysis. Poster Presentation Central Arizona Phoenix LTER Annual Symposium (January 2010).

Buckley, Geoffrey L., Boone Christopher G. "Lots for Tots": Paving the Way for Recreational Space in Baltimore. Paper Presentation at Baltimore Ecosystem Study Annual Meeting, Baltimore, MD (October 2009).

Boone, Christopher G. Environmental Justice and Urban Dynamics in a Post-Industrial City: Lessons from Baltimore. Paper Presentation at the Center for Science, Policy & Outcomes, Arizona State University, Tempe, AZ (October 2009).

Toké, N. A., K. Darby, E. Cook, C Mead, J. Brian, T Benn, S. Fisher, C.G. Boone, and S. Semken. Pedagogy in interdisciplinary higher education: an investigation of faculty and student perspectives. *Annual Geological Society of America Meeting*, Abstracts with Programs Vol. 41, No. 7, Portland, Oregon, (October 2009).

Sainan Zhang, Milan Shresta, Abigail York, and Christopher Boone. Socioecological Gradients and Land Fragmentation in Central Arizona-Phoenix. Poster Presentation at the Long Term Ecological Research All Scientists Meeting, Estes Park, CO (Sept 2009).

Milan Shresta, Sainan Zhang, Abigail York, Christopher Boone, Jack Wright, John Harrington, Tom Prebyl, Michael Antolin, Michael Agar, Barbara Nolen, and Amaris Sawann. Socioecological Gradients and Land Fragmentation: A Cross-Site Comparative Analysis. Poster Presentation at the Long Term Ecological Research All Scientists Meeting, Estes Park, CO (Sept 2009).

Kirstin Dow, Morgan Grove, Sierra Murdoch, Jarlath O'Neill-Dunne, Christopher Boone, and Geoff Buckley. A Parcel-level Dasytetric Approach to Mapping Changes in the Distribution of Urban Flooding Risks, Baltimore, Maryland (1950-2000). Poster Presentation at the Long Term Ecological Research All Scientists Meeting, Estes Park, CO (Sept 2009).

Boone, Christopher G., Pickett, Steward T.A., Grove, J. Morgan. Demographic and Temporal Modifiers of the Environmental Kuznets Curve (EKC) Approach at a Neighborhood Scale: Examples from the Baltimore Ecosystem Study (BES), Baltimore, Maryland, USA. International Human Dimensions Programme Open Meeting, Bonn, Germany (April 2009).

Boone, Christopher G., Fragkias, Michail, Cadenasso, Mary L., Pickett, Steward T.A., Grove, J. Morgan, Schwarz, Kirsten. Linking Ecology and Environmental Justice through Ecosystem Services: A Socio-Ecological Framework for Urban Sustainability. International Human Dimensions Programme Open Meeting, Bonn, Germany (April 2009).

Boone, Christopher G. and Bob Bolin. The Weight of History: Path Dependence and the Making of Desert City. International Human Dimensions Programme Open Meeting, Bonn, Germany (April 2009).

Boone, Christopher G., Szkupinski-Quiroga, Seline, and Jennifer Sandlin. The environmental justice of food: children, schools, and food deserts in South Phoenix” Paper presentation at the Annual Meeting of the Association of American Geographers, Las Vegas, NV (March 2009).

Sister, Chona E., and Christopher G. Boone. A longitudinal analysis of park equity in Baltimore, 1930-2000. Paper presentation at the Annual Meeting of the Association of American Geographers, Las Vegas, NV (March 2009).

Zhang, Sainan, York, Abigail M., and Christopher G. Boone. Quantitative Analysis of Landscape Fragmentation in Metropolitan Phoenix, USA, from 1992 to 2001. Illustrated paper presentation at the Annual Meeting of the Association of American Geographers, Las Vegas, NV (March 2009).

Boone, Christopher G. Socioecological Science. Paper Presentation, Design Challenges and Solutions for Establishing a Network of Socio-Ecological Research Sites, San Juan, Puerto Rico (December 2008).

Boone, Christopher G., Pickett, Steward T.A., Cadenasso, Mary L. Ecological literacy and fostering conversation and engagement in the human ecosystem. Paper Presentation at the 93<sup>rd</sup> Annual Meeting of the Ecological Society of America, Milwaukee, WI (August 2008).

Boone, Christopher G. Social Science Research in a Desert City: Experience from the CAP-LTER.

Paper Presentation at the 2008 Regional LTER Meeting, University of New Mexico, Albuquerque, NM (July 2008).

Boone, Christopher G., Abigail York, Nancy Grimm, and Marcia Nation. Socioecological Gradients and Land-Use Fragmentation: A Cross-Site Comparative Analysis. Paper Presentation at the US-China International Workshop on Long-Term Ecological Research in Urban Environments, Chinese Academy of Sciences, Beijing, China (June 2008).

Grove, J.M., Troy, A., Zhou, W., O'Neil-Dunne, J., Lidman, A., and Boone, C. "Green with Envy: Understanding the Social-Ecological Dynamics of Residential Landscapes in the Baltimore Ecosystem Study." ISSRM 2008, Burlington Vermont (June 2008).

Boone, Christopher G. A Bold New Endeavor: the ASU School of Sustainability. Presentation to ASU Alumni, Tempe, AZ (April 2008).

Boone, Christopher G. Park Access and Environmental Equity in Baltimore, Maryland. Paper presentation at the Annual Meeting of the Association of American Geographers, Boston, MA (April 2008).

Boone, Christopher G. Urban Built Environment, Environmental Justice, and Health (Session II: Physical activity and recreational spaces). Session Discussant. Annual Meeting of the Association of American Geographers, Boston, MA (April 2008).

Sister, Chona E., Boone, Christopher G., Wilson, John P., Wolch, Jennifer. Park Access and Equity in Los Angeles, Phoenix, and Baltimore. Paper presentation at the Annual Meeting of the Association of American Geographers, Boston, MA (April 2008).

Darby, Kate, Cutts, Bethany, Boone, Christopher, Brewis, Alexandra. Environmental Justice and Obesigenic Environments: A Walkability Analysis of Phoenix, Arizona. Paper presentation at the Annual Meeting of the Association of American Geographers, Boston, MA (April 2008).

Boone, Christopher G. Panelist for Public Health and the Environment. Graduates in the Earth, Life, and Social Sciences 7<sup>th</sup> Annual Symposium, Arizona State University, Tempe, AZ (January 2008).

Gartin, M, Z. Hasan, S. Szkupinski-Quiroga, C. Boone, A. Wutich, and A. Brewis. Childhood Obesity, Cultural Understandings, and Nutritional Knowledge Flow: Trans-disciplinary Approaches. Society for Anthropology Food and Nutrition Invited Session: Methodological Innovation and Hybrid Research Designs in Nutritional Anthropology, American Anthropology Association 106<sup>th</sup> Annual Meeting, Washington DC (November 2007).

Measuring park equity in Baltimore using a park service areas approach. Baltimore Ecosystem Study Annual Meeting, Baltimore, MD (October 2007).

Urban Ecology and Public Health. School of Environment and Natural Resources, University of Vermont (April 2004).

Baltimore and the Crisis of Environmental Equity Research. Department of Geography and Environmental Engineering, Johns Hopkins University (September 2000).

Boone, Christopher G., Bob Bolin, J. Morgan Grove, Geoff Buckley, Alexandra Brewis, Bethany Cutts, Kate Darby. CAP-BES Cross-Site Research on Environmental Justice. Poster presentation, CAP LTER mid-term review, Tempe, AZ (September 2007).

Boone, Christopher G. Environmental equity, parks, and accessibility in Baltimore, MD. Paper presentation at the Annual Meeting of the Association of American Geographers, San Francisco, CA

(April 2007).

Grove, J. Morgan, Boone, Christopher G., and Austin Troy. Overview of BES Social Pattern and Process Research. Presentation at the Mid-Term Review, Baltimore Ecosystem Study, Baltimore, MD (March 2007).

Grove, J. Morgan and Christopher G. Boone. "Social Science Research in the Baltimore Ecosystem Study." Workshop on Developing and Evaluating Social Science Approaches for the Baltimore Ecosystem Study LTER: Local Focus, Global Thinking. Baltimore, MD (January 2007).

Boone, Christopher G. and J. Morgan Grove. "Environmental equity analysis of parks and open spaces in Baltimore, Maryland." Paper presentation at the Baltimore Ecosystem Study Annual Meeting, Baltimore, MD (October 2006).

Boone, Christopher G. and J. Morgan Grove. "Environmental Justice across the LTER Network: long-term and multi-scale understandings of past, present, and future." Workshop presentation at the 2006 All Scientists Meeting of the Long Term Ecological Research network, Estes Park, CO (September 2006).

Boone, Christopher G. "Dasymetric methods for improving resolution of historical data sources." Paper presentation at the 2006 All Scientists Meeting of the Long Term Ecological Research network, Estes Park, CO (September 2006).

S.T.A. Pickett, J.M. Grove, P.M. Groffman, L.E. Band, C.G. Boone, G.S. Brush, W.R. Burch, Jr., M.L. Cadenasso, J.L. Hom, J.C. Jenkins, N. Law, C.H. Nilon, R.V. Pouyat, K. Szlavecz, P.S. Warren, and M.A. Wilson. "Highlights of the Baltimore Ecosystem Study: Urban Legends and Improved Management for Cities." Poster Presentation at the 2006 All Scientists Meeting of the Long Term Ecological Research network, Estes Park, CO (September 2006).

Boone, Christopher G. "Where Historical Geography and Ecology meet: the Imprint of Social Legacies on Present-Day Land Cover in a Baltimore Watershed." Paper Presentation at the 13<sup>th</sup> International Conference of Historical Geographers, Hamburg, Germany (August 2006).

S.T.A. Pickett, M.L. Cadenasso, C.G. Boone. "Ecology and Environmental Justice: Relationships to Ecological Theory." Paper Symposium at the 91<sup>st</sup> Annual Meeting of the Ecological Society of America, Memphis, TN (August 2006).

Boone, Christopher G. "Environmental Justice and Well-Being in Baltimore: Measuring Accessibility to Parks and Open Space." Paper Presentation at the Quarterly Science Meeting, Baltimore Ecosystem Study (April 2006).

Boone, Christopher G. "Environmental Justice and Open Space Amenities in Baltimore, Maryland." Paper Presentation at Association of American Geographers 102nd Annual Meeting, Chicago, Illinois (March 2006).

Boone, Christopher G. "Improving resolution of historical census data in metropolitan areas: a dasymetric approach." Paper Presentation at the Social Science History Association Annual Meeting, Portland, Oregon (November 2005).

Boone, Christopher G. "Baltimore Ecosystem Social and Demographic Research at Ohio University." Paper Presentation at the BES-LTER Social and Demographic Group Meeting, Burlington, Vermont (July 2005).

Boone, Christopher G. "An Integrated Approach to Environmental Justice Research in Columbus, Ohio." Paper Presentation at Association of American Geographers 101st Annual Meeting, Denver,

Colorado (April 2005).

Boone, Christopher G. "GIS and Dasymetric Mapping Methods for Environmental Justice Research: a Case Study of Columbus, Ohio." Paper Presentation at the East Lakes Division of the Association of American Geographers Annual Meeting, Athens, Ohio (October 2004).

Berkowitz, A.R. (presenter) Cadenasso, M.L., Boone, C.G., Band, L.W., Groffman, P.M., Pickett S.T.A. (contributors) "Opportunities and Challenges for Ecology in the Baltimore Ecosystem." Ecological Society of America, Portland, Oregon.

Boone, Christopher G. "Dynamics of Wastewater Infrastructure Provision in Paris, France and Baltimore, Maryland." Paper Presentation at Association of American Geographers 100th Annual Meeting, Philadelphia, Pennsylvania (March 2004).

Boone, Christopher G. "Urban Ecology and Public Health: Social Science Research for the Baltimore Ecosystem Study." Invited Colloquium, Department of Environmental and Plant Biology, Ohio University (March 2004).

Boone, Christopher G. "The Baltimore Ecosystem Study and the PIREN-Seine zone atelier (Paris): Preliminary Findings from Collaborative Historical Research." Paper Presentation at the Social Science History Association Annual Meeting, Baltimore, MD (November 2003).

Boone, Christopher G. "Oysters and Limburger Cheese: The Struggle to Build Sewers in Baltimore." Paper Presentation at Association of American Geographers 99th Annual Meeting, New Orleans, Louisiana (March 2003).

Boone, Christopher G. "Politics of Infrastructure Provision in the Most Northerly Southern City: Sewers for Baltimore, 1850-1905." Paper Presentation at the Eastern Historical Geographers Association Annual Meeting, St. Augustine, Florida (February 2003).

Boone, Christopher G. "A Synopsis of Demographic and Social Sciences Research for the Baltimore Ecosystem Study at Ohio University." Paper Presentation at the Demographic-Social Sciences Group Meeting of the Baltimore Ecosystem Study, Baltimore, Maryland (January 2003).

Boone, Christopher G. "Temporal Dynamics of Urban Patches." Paper Presentation at the Demographic-Social Sciences Group Meeting of the Baltimore Ecosystem Study, Baltimore, Maryland (January 2003).

Boone, Christopher G. "Long Overdue: Explaining Delays in Building Baltimore's Sewers, 1850-1905." Paper presentation at the 5th Annual Meeting of the Baltimore Ecosystem Study, Baltimore, Maryland (October 2002).

Boone, Christopher G. and Brad Jokisch "Cambodian Initiatives." Invited Colloquium, Southeast Asian Studies, Ohio University (May 2002).

Boone, Christopher G. "Environmental Inequity as Process." Invited Colloquium, Department of Geography and Planning, University of Akron (April 2002).

Boone, Christopher G. "Creating a Historical GIS for the Baltimore Ecosystem Study, an Urban Long Term Ecological Research Site." Poster presentation at Association of American Geographers 98th Annual Meeting, Los Angeles, California (March 2002).

Boone, Christopher G. "Mapping Baltimore's Past: Methodological Issues in Creating a GIS for Historical Census Boundaries and Data." Poster presentation at the 4th Annual Meeting of the Baltimore Ecosystem Study, Baltimore, Maryland (September 2001).



Boone, Christopher G. "Creating a GIS for Historical Census Boundaries and Data: Some Methodological Issues." Presentation at the Biocomplexity Workshop on Census, GIS, and Historical Methods, Tempe, Arizona (September 2001).

Boone, Christopher G. "Methods for Understanding Ecological Change in the Baltimore Metropolitan Region: Creating an Historical GIS." Presentation at the International Conference of Historical Geographers 11th Meeting, Quebec City, Canada (August 2001).

Boone, Christopher G. "Linking Public Health and Ecological Change in Baltimore." Presentation at the Canadian Association of Geographers 50th Annual Meeting, Montreal, Canada (June 2001).

Boone, Christopher G. "Public Health and Environmental Conditions in Baltimore." Presentation at the American Society of Environmental History Annual Meeting, Durham, North Carolina (March 2001).

Boone, Christopher G. "An Examination of Toxic Releases and Population Characteristics in Baltimore City: A Case Study in Environmental Equity Research." Baltimore Ecosystems Study Annual Meeting (October 2000).

Boone, Christopher G., Grove, J.M., and M. Ratcliffe. "Census Data as a Core Demographic, Social, and Economic Dataset for Long Term Ecological and Social Research." Baltimore Ecosystems Study Annual Meeting (October 2000).

Boone, Christopher G. "Contributions of Historical Geography to Long Term Ecological Research in Baltimore." Eastern Historical Geographers Association, Bar Harbor, Maine (October 2000).

Boone, Christopher G., Grove, J.M., and M. Ratcliffe. "Census Data as a Core Demographic, Social, and Economic Dataset for Long Term Ecological and Social Research." All Scientists Meeting of the Long Term Ecological Research Network, Snowbird, Utah (August 2000).

Boone, Christopher G., Buckley G.L., and J. Dyer "Utility of Historical Census Data for Long Term Ecological Studies: A Case Study of the Baltimore Metropolitan Region through the Baltimore Ecosystem Study." Invited Seminar, United States Census Bureau, Suitland, Maryland (July 2000).

Boone, Christopher G. "Environmental Equity Research: Historical and GIS Methodologies." Presentation at Association of American Geographers 96th Annual Meeting, Pittsburgh, Pennsylvania (April 2000).

Boone, Christopher G. "Real Estate Promotion and Residential Segregation in Los Angeles County." Presentation at East Lakes Division Association of American Geographers 1999 Annual Meeting, Mohican State Park, Ohio (November 1999).

Boone, Christopher G. "Boosterism and the Shaping of Los Angeles, 1880-1930." Presentation at Association of American Geographers 95th Annual Meeting, Honolulu, Hawaii (March 1999).

Boone, Christopher G. Session discussant for "Ralph Brown-Andrew Hill Clark Award Papers." Association of American Geographers 95th Annual Meeting, Honolulu, Hawaii (March 1999).

Boone, Christopher G. "Environmental Equity from an Historical Perspective: the City of Commerce, CA." Presentation at the California Geographical Society Annual Conference, San Bernardino, California (May 1998).

Boone, Christopher G. "Investigating Environmental Inequity in Los Angeles County: Historical Explanations." Presentation at Association of American Geographers 94<sup>th</sup> Annual Meeting, Boston, Massachusetts (March 1998).

Boone, Christopher G. "Exploring Environmental Equity: EPA Toxic Release Inventory in Los Angeles." Presentation at the Southern California Environment and History Conference, Northridge, California (September 1997).

Boone, Christopher G. "Language and Environmental Conditions in Turn-of-the-Century Ottawa." Presentation at Association of American Geographers 93<sup>rd</sup> Annual Meeting, Fort Worth, Texas (April 1997).

Boone, Christopher G. Session discussant for "California: Culture, Population, and Urbanism." Association of American Geographers 93<sup>rd</sup> Annual Meeting, Fort Worth, Texas (April 1997).

Boone, Christopher G. "Private Initiatives to Make Flood Control Public: the St. Gabriel Levee and Railway Company in Nineteenth-Century Montreal." Presentation at Association of American Geographers 92<sup>nd</sup> Annual Meeting, Charlotte, North Carolina (April 1996).

Boone, Christopher G. "Making Nature Hazardous: the Politics of Flood Control in Nineteenth-Century Montreal." Presentation at the Canadian Association of Geographers Annual Meeting, Montreal, Quebec (May 1996).

Boone, Christopher G. "Suburban Services and Politics in Montreal: Sorting out the 'Mile End Muddle,' 1893-1909." Presentation at Association of American Geographers 91<sup>st</sup> Annual Meeting, Chicago, Illinois (March 1995).

Boone, Christopher G. "The Politics of Mass Transit Delivery: The Case of Rio de Janeiro, 1905-1930." Presentation at Association of American Geographers 89<sup>th</sup> Annual Meeting, Atlanta, Georgia (April 1993).

Boone, Christopher G. "The Concept of the City According to Aristotle, Giovanni Botero, and Ibn Khaldûn." Presentation at the Canadian Association of Geographers, Ontario Division Annual Conference, Scarborough College, University of Toronto, Scarborough (October 1992).

Boone, Christopher G. "Resistance to Change: Streetcar Riots in Rio de Janeiro, 1890-1920." Presentation at the Canadian Association of Geographers Annual Conference, University of British Columbia, Vancouver (May 1992).

## **Graduate Advising and Supervision**

*As primary advisor:*

Wen-Ching Chuang, Post-doctoral Fellow, School of Sustainability, Arizona State University (Summer 2013–Summer 2016). Research: environmental justice, vulnerability, urban tree canopy analysis, ecosystem services, demographic and land cover change. National Academy of Sciences/National Research Council researcher at the Environmental Protection Agency, Cincinnati, OH; Assistant Professor, Miami University of Ohio.

Milan Shrestha (PhD University of Georgia), Post-Doctoral Fellow (2008-09), School of Sustainability, Arizona State University. Senior lecturer, School of Sustainability, Arizona State University.

Chona Sister (PhD University of Southern California), Post-Doctoral Fellow (2008-2010). School of Sustainability, Arizona State University.

Sainan Zhang, Ph.D. (graduated), School of Sustainability, Arizona State University (Fall 2007–Spring 2013). Research: Urbanization, remote sensing, and inequality formation. BS in Architecture, China University of Mining and Technology, 2001; MS in Urban Development Management, Wageningen University, 2004. Technical Specialist at the United Nations Population

Fund, New York, NY.

Benjamin Stanley, Ph.D. (graduated), School of Sustainability, Arizona State University (Spring 2010-Spring 2014). Dissertation title: Sustainable Urban Development and the Political Economy of Growth in Phoenix, Arizona. M.A. Geography, Arizona State University. Post-doctoral fellow and instructor at ASU.

Colin Kunzweiler, M.S. student (graduated), School of Sustainability, Arizona State University (Spring 2011-Fall 2013). Research: health and sustainability; infectious disease. BS in Ecology, Boston College. PhD in Epidemiology and Biostatistics, University of Illinois, Chicago. Senior Epidemiologist, Massachusetts Department of Public Health.

Lindsey Allen, M.S. Student (graduated), School of Sustainability, Arizona State University (Fall 2010-2011). Research: Walkability, health, community development. BS in Environmental Studies, Oberlin College. Coordinator, Nine Mile Run Watershed Association, Pittsburgh, PA.

Riley Smith, M.A. student (graduated), School of Sustainability, Arizona State University (Spring 2009-Summer 2010). Thesis title: Barriers to Execution of Sustainability Governance. BS, Utah State University. Manager of Sustainability at St. Mary's College, San Francisco, CA.

Brigitte Bavousett, M.A. Student (graduated), School of Sustainability, Arizona State University (Fall 2007-Fall 2008). Research: Sustainable business practices and forestation project assessment. Recruiter and Instructional Professional, School of Sustainability, ASU.

Sagar Mysorekar, M.A. Student (graduated), Department of Geography, Ohio University (Fall 2003 – Fall 2005). Thesis: "A Geospatial Fire Risk Analysis of Athens, Ohio." October 2005. Head of GIS services, Quantta Analytics, Kolkata, India.

Caroline Runser-Turner. M.A. Student (graduated), Department of Geography, Ohio University (Fall 2003-Fall 2005). Living With the Legacy of Coal: A Study of Appalachian Women's Perceptions of the Coal Industry. August 2005. Senior Planner at Land-of-Sky Regional Council, Asheville, NC.

Mingxiu Wei, M.S. Environmental Studies (graduated), Ohio University (Fall 2002-Fall 2005). Final Research Project: "Urban Growth Models Using Raster and Cellular Automata Approaches." October 2005.

Justin Goodwin, M.A. Student (graduated), Department of Geography, Ohio University (Fall 2003-Fall 2005). Thesis: "Using GIS to assess latent demand for alternatives to automobile travel in Greater Cincinnati." September 2005. Associate Urban Planner, MKSK, Columbus, OH. Associate faculty, Austin E. Knowlton School of Architecture, Ohio State University.

Marilza Thornton, M.A. Latin American Studies (graduated), Ohio University (Fall 2003-Summer 2005). "Environmental Injustice in Brasília: Who are the People Living in Estrutural and Why?" June 2005. Zumba Instructor at Akron General Hospital, Akron, OH.

Lindley Hanley, M.A. Student (graduated), Department of Geography, Ohio University (Fall 2003 – Fall 2004). Thesis: "This Park is a Magnet!" How The Refurbishing of Patterson Park has affected the Residential Property Values of the Patterson Park Neighborhood." August 2004. Private Client Banker, JP Morgan Chase, Laguna Beach, CA.

Melissa Koenig, M.A. Student (graduated), Department of Geography, Ohio University (Fall 2002 – Spring 2004). Thesis: "Baltimore's Changing Neighborhoods: A Case Study of Federal Hill, Little Italy, Washington Village/Pigtown, and Penn-North 1970-2000." June 2004. Event Manager, Vivien Maier & Assoc., Seattle, WA.

Lee Marks, M.S. Environmental Studies (graduated), Ohio University (Spring 2000-2002). Thesis: "Moisture in Straw-Bale Houses, Sampled in Southeastern Ohio."

Abigail Porter, M.A. Student (graduated), Department of Geography, Ohio University (Fall 2001-Spring 2003). Thesis: "Wetlands in the Urban Landscape: The Process of Wetland Restoration in Baltimore, Maryland and Paris, France."

Shauna Dunham, M.A. Student (graduated), Department of Geography, Ohio University (Fall 2000-Spring 2002).

Sarah Hinman, M.A. Student (graduated), Department of Geography, Ohio University (Fall 2000-Spring 2002). Thesis: "Urbanization and Public Health: A Study of the Spatial Distribution of Infant Mortality in Baltimore, Maryland, 1880." Assistant Professor, Leiden University, The Hague, Netherlands.

*As committee member:*

I have served on approximately 120 thesis/dissertation committees over the past 20 years.

### **Undergraduate Thesis/Capstone Director**

Jake Irvin, B.A. (graduated) Barrett Honors College, Arizona State University. Food deserts and interventions. (Sept 2011-Spring 2012). Software Developer, State Farm.

Paiton Upshaw, B.S. Capstone research paper. Using mushrooms for bioremediation of oil spills (Summer 2019). Natural Resource Specialist, Texas Commission on Environmental Quality.

### **Selected Workshops and Outreach**

Men Advocates and Allies for Gender Equity. ASU ADVANCE workshop (virtual) (October 2020).

Actionable Science Policy Solutions for Local Government Resilience. Invited participant, Sonoma County, CA (July 2018).

Full Diversity Partners to Prevent Racism, Sexism, and Homophobia, Geneva, IL (September 2017).

Urban Transitions 2016 Conference Scientific Committee, Shanghai, China (2015-16).

Urban Transitions to a Sustainable Low Carbon Future. Co-lead with Bill Solecki. City University of New York, June 2014.

Urban Transitions and Transformations: Science, Synthesis, and Policy. Scientific Steering Committee, Taipei, Taiwan, November 2014.

Future Earth. Planning and Consultation Meeting of Global Environmental Change programs. UNESCO, Paris, France. November 2012.

Climate Change in U.S. Cities: Impacts, Vulnerabilities, and Adaptation. Supported by the US National Climate Assessment and the US Global Change Program. Columbia University, New York City. Invited Participant. October 2011.

International Human Dimensions Programme, Global Land Project/Urbanization and Global Environmental Change Project workshop on "Sustainable Land Use in an Urbanizing World." Copenhagen, Denmark. Invited participant. June, 2011.

Long Term Social Ecological Research workshop. Invited plenary presentation, Finnish Environment Institute, Helsinki, Finland, June 2011.

Urban responses to climate change in Latin America. World Urban Forum 5, Rio de Janeiro, Brazil. March 2010. [co-organizer with M. Fragkias, and presenter]

Socioecological Gradients and Land Fragmentation: a cross site comparative analysis. Long Term Ecological Research All Scientists Meeting, Estes Park, CO. Sept 2009. [co-organizer and leader]

Long Term Ecological Research Network Science Council Meeting. San Diego, CA. May 2009.

Urbanization and Global Environmental Change Workshop, Bonn, Germany [invited participant]. April 2009.

Linking Ecology and Environmental Justice in Urban Areas. Session Convenors: Christopher Boone and Michail Fragkias, Arizona State University. International Human Dimensions Programme, Bonn Germany. April 2009.

“Metropolitan Natures.” Invited Participant, authors’ workshop at the Center for Quebec Studies, McGill University, Montreal, Canada (March 2009)

“LTER Working Group: Design Challenges and Solutions for Establishing a Network of Socio-Ecological Research Sites.” (Co-organizers: Jess K. Zimmerman, Frederick N. Scatena, Chris Boone, Ted Gragson, and J. Morgan Grove). San Juan, Puerto Rico, December 2008.

“US-China International Workshop on Long-Term Ecological Research in Urban Environments.” Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, June 2008 [invited participant].

“Political Ecology and Sustainability.” Presentation to and discussion with Prescott College students, Global Political Ecology class. March 2008.

“Heat Vulnerability Conference.” Sponsored by ASU, EPA, and the Centers for Disease Control. Tempe, AZ, November 2007 [invited participant].

“International Workshop: Urban Responses to Climate Change.” Sponsored by the Urbanization and Global Environmental Change project, IHDP, GIOS, and the CUNY Center for Sustainable Cities. Hunter College, New York, September 2007 [invited participant].

“Resilience in Ecology and Urban Design: New Theory and Practice for the Urban Century.” Millbrook, NY, Cary Conference, Institute of Ecosystem Studies, April 2007 [invited participant].

“CAS-ASU Workshop on Urban Development and Sustainability.” Beijing, December 2006 [invited participant].

“China MLR Workshop.” Decision Center for a Desert City, ASU, September 2006 [invited participant].

“AGTRANS Workshop.” Global Institute of Sustainability, ASU, January 2006 [invited participant].

“Social Science and NEON Workshop.” Harvard Forest, Petersham, Massachusetts, January 2006 [invited participant].

“LTER Social Science Workshop.” University of Georgia, Athens, Georgia, August 2004 [invited participant].

“From LTER to LTSER: The socio-economic dimension of long-term socio-ecological research.” IHDP / IGBP / LUCC / IHDP-IT workshop. Vienna, Austria, February 2005 [invited participant].

"Urban Ecology Collaborative Research Meeting." Boston College, May 27, 2004. [invited participant]

"Initiating an Open Source\Content Landcover Change Modeling Effort." Boston College, August 21-23, 2003. [participant]

"Population and GIS Workshop." [with Brad Jokisch] Royal University of Phnom Penh, Phnom Penh, Cambodia, December 2-15, 2001.

"A French-US International Long Term Ecological Research Workshop." [participant] Sponsored by the National Science Foundation and the Centre National de la Recherche Scientifique. Versailles, France, January 14-19, 2001.

"Using GIS and Remote Sensing for Planning in Appalachian Ohio." [with James Lein] Department of Geography, Ohio University, December 8, 2000.

"Using the Web and Powerpoint for Effective Teaching." Workshop for K-12 teachers, Center for Spatial Analysis and Remote Sensing, California State University, Los Angeles, June 16, 1999.

"An Introduction to GIS and ArcView 3.1," Center for Spatial Analysis and Remote Sensing, California State University, Los Angeles, March 6, 1999.

"An Introduction to GIS and ArcView 3.1," Center for Spatial Analysis and Remote Sensing, California State University, Los Angeles, February 18, 1999

"An Introduction to GIS and ArcView 3.1," Center for Spatial Analysis and Remote Sensing, California State University, Los Angeles, January 11, 1999.

"An Introduction to GIS and ArcView 3.0," Center for Spatial Analysis and Remote Sensing, California State University, Los Angeles, November 19, 1998.

"An Introduction to GIS," Santa Monica College Earth Sciences Faculty, May 22, 1998.

"Geography: A Multi-Media Presentation," California State University, Los Angeles Open House for elementary and high school students, May 19, 1998.

"An Introduction to GIS and ArcView 3.0," Center for Spatial Analysis and Remote Sensing, California State University, Los Angeles, April 17, 1998.

"Internet and HTML Workshop for Educators," Marshall Secondary School, Los Angeles, August 25-26, 1997.

"Internet and HTML Workshop for Educators," Lincoln High School, Los Angeles, July 14-18, 1997.

"Introduction to College-Level Geography," Stevenson Middle School, Los Angeles, May 30, 1997.

## **Teaching Experience**

*Arizona State University (January 2006-present)*

SOS 111 "Sustainable Cities"

ASB 100 "Introduction to Global Health"

ASB/ESS/GCU/SOS 591 "Principles of Urbanism"

SOS 510 "Perspectives on Sustainability"

SOS 532 "Sustainable Urban Dynamics"

SOS 511 "Research Methods in Sustainability"

SOS 598/ASB 591 “Interdisciplinary Methods for Socio-ecological Systems Research”  
ASB 591 “Justice and the City”  
ASB 394 /591 “City and Environment”  
ASM 494/591 “Urban and Environmental Health”  
ASB 591/BIO 591 IGERT Workshop: “Pedagogy for Interdisciplinary Higher Education: Inquiry and Application”  
IND/SOS 464 “Innovation Space”

*Georgetown University (June 2013)*  
Georgetown Sustainability Internship course.

*Ohio University (September 1999-December 2005)*  
Geography 201 “Environmental Geography”  
Geography 268 “Computer Applications in Geography”  
Geography 370/570 “Geographic Information Systems Applications”  
Geography 456/556 “City and the Environment”  
Geography 478/578 “Principles of Geographic Information Systems”  
Geography 675 “Research and Writing”  
Geography 683 “Urban Seminar”

*California State University, Los Angeles (September 1996-June 1999)*  
Urban Analysis 101 “The Urban World”  
Geography 150 “The Cultural Landscape”  
Geography 268 “Computer Applications in Geography”  
Geography 322 “Global Change and the Human Condition”  
Geography 370 “World Regions”  
Geography 376 “Urban Spatial Processes and Patterns”  
Geography 451 “Historical Geography of North America”  
Geography 476 “Urban Areas”  
Geography 477 “Urban Issues”  
Geography 481 “Political Geography”  
Geography 530 “Graduate Seminar in Urban Social Geography”  
Geography 575 “Graduate Seminar in Urban Historical Geography”

*Carleton University, Department of Geography (September 1995-May 1996).*  
Geography 230 “The Cultural Landscape”  
Geography 545 “Graduate Seminar in Historical Geography”  
Geography 329 “Sustainable Development in Third World Environments”

*University of Toronto, Department of Geography (September 1991-August 1993).*  
Geography 248 “Historical Geography of Canada Before Confederation”  
Geography 239 “Global Political Geography”  
Geography 110 “Food, Agriculture, and the Environment”

### **Student Fellowships**

Finalist (top three in North America) for 1994 Council of Graduate Schools/University Microfilms International Distinguished Dissertation Award (December 1994).

Post Doctoral Fellowship, Social Sciences and Humanities Research Council of Canada, Department of Geography, McGill University (1994-95).

Post Doctoral Fellowship, Social Sciences and Humanities Research Council of Canada, Department of Geography, McGill University (1993-94).

Joseph E. May Scholarship for Excellence in Historical Geography, University of Toronto (November

1991).

Doctoral Fellowships, Social Sciences and Humanities Research Council of Canada (1990-92).

University of Toronto Open Fellowships (1987-90).

### **Selected University Service (at ASU)**

Provost sub-committee on post-doctoral to tenure-line faculty pathway programs for under-represented minorities(2020)

Sustainable Development Goals & Beyond Task Force (2019-present).

Biodesign Sustainability Initiative Advisory Committee (2016-present).

Biodesign Institute Internal Advisory Board (2016-present).

Humanities Lab Advisory Board (2018-present).

Executive Board, ASU Biomimicry Center (2015-present).

Dean's Council, ASU-Thunderbird merger (December 2014-15).

Search Committee, Walton Chair of Sustainability Solutions (2018).

ASU-Kohala Institute Programming Committee (2017-2019).

Provost committee on Sustainability Solutions Service (June 2014-2016).

Provost committee on undergraduate student hallmarks (2016).

Graduate chair, School of Sustainability (November 2006-August 2010).

Chair [appointed by provost], Sustainability Academic Program Committee (2009-2010).

Executive Committee, Urbanism PhD concentration (2007-present).

Executive committee, Environmental Social Sciences PhD degree program (August 2007-present).

Committee member, Social Sciences and Health degree programs (August 2007-present).

Environmental Life Sciences PhD Steering Committee (August 2009-present).

### **Selected Professional Service**

Local Organizing Committee, Annual Meeting of the American Association for the Advancement of Science, shifted from Phoenix to virtual meeting (May 2020-February 2021).

NCSE Drawdown 2021 Steering Committee, Annual Conference (October 2020-January 2021).

External reviewer, Environmental Resilience Institute, Indiana University (August 2019).

Board Member and Board Chair to the Council of Environmental Deans and Directors, National Council on Science and the Environment (April 2018-present).

Committee Member, Strengthening Sustainability Curricula at the Undergraduate and Graduate Level, National Academies of Sciences and Engineering (September 2018-October 2020).



Technical Advisory Committee, UCLA Sustainable LA Grand Challenge, Thriving in a Hotter Los Angeles (2015-2020).

Review Panel, UCLA Sustainable LA Grand Challenge (April 2018).

Yoffee, Norman and Boone, Christopher G. Co-editors of Cambridge University Book Series, *New Directions in Sustainability and Society* (March 2012-September 2017).

Founding Board Member, Center for Global Security and Cultural Transformation, Lüneburg, Germany (June 2015-present).

Technical Commission, Bi-National Laboratory, Climate Change, Adaptation, and Sustainability, Arizona State University and the National Autonomous University of Mexico (UNAM) (July 2017-present).

Associate Editor, *Frontiers in Ecology and Evolution, Urban Ecology* (April 2015-present).

Urban Platform Working Group, Future Earth (March 2015-2017).

Academic Review Committee, Earth Institute, Columbia University (February 2015).

Chair, External Review Committee, Department of Geosciences, Texas A&M University (October 2015).

Scientific Committee, Urban Transitions Global Summit, Shanghai (January-September 2016).

National Council for Science and the Environment, Executive Committee of the Council of Environmental Deans and Directors, (October 2013-present).

Mayo Clinic Green Committee, (July 2013-2017).

Thought Leader Committee for ASU-Vitalyst partnership (September 2017-present).

Steering Committee, Workshop on Climate Change in U.S. Cities: Impacts, Vulnerabilities, and Adaptation in Support of the National Climate Assessment, (September 2011-May 2012).

Associate Editor, *Current Research on Cities*, Elsevier Press, (February 2011-present).

External Advisory Board, University of Puerto Rico - Rio Piedras, Integrated Graduate Education Research and Training (IGERT) program on the Urbanizing Tropics, San Juan, PR (2011-2014).

Scientific Steering Committee, Urbanization and Global Environmental Change Programme, United Nations International Human Dimensions Programme (September 2010-2017).

Editorial Board, *International Journal of Sustainable Urban Development* (spring 2009-present).

Editorial Board, *Environmental Justice* (2008-2020).

EPA STAR fellowships external reviewer and panelist (2011).

National Science Foundation. Luquillo Long Term Ecological Research site external review panel. San Juan, Puerto Rico (June 2009).

2009 Long-Term Ecological Research All Scientists Meeting Planning Committee; Chair, plenary

subcommittee (August 2008-September 2009)

Association of American Geographers Research Grants Committee (July 2009-June 2012).

Member of writing team, Long-Term Ecological Research cross-site, inter-disciplinary proposal, Portland, OR (May 2007).

National Science Foundation. Advisory Panel for the 2005 Human and Social Dynamics Competition. Chaired 4 panels (2005).

Editorial Board, *Historical Geography* (1996-2005).

Councilor, Historical Geography Specialty Group of the Association of American Geographers (1997-2000)

Guest Editor, "Cities and Environment in Historical Perspective," *Historical Geography* vol. 25 (1997).

Guest co-editor, *Journal of Environmental Studies and Sciences* (2015).

Member, American Association for the Advancement of Science.