

CHINGWEN CHENG, PhD, PLA, ASLA, LEED AP

Program Head and Associate Professor of Landscape Architecture, The Design School
Senior Sustainability Scientist, Global Institute of Sustainability and Innovation

Arizona State University

Chingwen.Cheng@asu.edu
Cell: (480) 452-6705

P.O. Box 871605
Tempe, AZ 85287-1605

A. EDUCATION

- 2014 **Post-Doctoral Fellow in Environmental Justice Program**, School for Environment and Sustainability, University of Michigan, Ann Arbor, Michigan
- 2013 **PhD in Regional Planning**, University of Massachusetts Amherst, Amherst, Massachusetts
- 2001 **Master of Landscape Architecture**, University of Michigan, Ann Arbor, Michigan
- 1998 **Bachelor of Science in Horticulture and Landscape Architecture**, National Taiwan University, Taipei, Taiwan

B. REGISTRATION & CERTIFICATION

- 2007 Registered Professional Landscape Architect, Florida license number 6666911 (inactive)
- 2005 Registered Professional Landscape Architect, Illinois license number 157001187 (active)
- 2005 Leadership in Energy and Environmental Design Accredited Professional (LEED AP)

C. ACADEMIC APPOINTMENTS

2015- Arizona State University (ASU), Tempe, Arizona

- 2021-Present Program Head of Landscape Architecture Program, The Design School (TDS), Herberger Institute for Design and the Arts (HIDA)
- 2021-Present *Associate Professor of Landscape Architecture*, TDS, HIDA
- 2015-2021 *Assistant Professor of Landscape Architecture*, TDS, HIDA
- 2015-present *Senior Sustainability Scientist*, Global Institute of Sustainability and Innovation
- 2019-present *Affiliated Faculty*, Center for Emergency Management and Homeland Security
- 2018-present *Affiliated Faculty*, Global Drylands Center
- 2017-present *Affiliated Faculty*, Biomimicry Center
- 2016-present *Affiliated Faculty*, Urban Climate Research Center

2014-15 National Taiwan University, Taipei, Taiwan

Visiting Scholar, Risk Society and Policy Research Center, College of Social Sciences

- Guest Lecturer. 'Environmental Justice' in *Risk Society and Environmental Justice* certification program

Visiting Professor, Global Change Research Center

- Participated one academic year in *Workshop on Climate Change (I): Climate Change and Ecological Planning*
- Guest Lecturer. 'Environmental Justice' in *Environmental Sociology*

2014 Chung Yuan Christian University, Taoyuan, Taiwan

Guest Lecturer for five classes, Department of Landscape Architecture

**2013-15 University of Michigan, Ann Arbor, Michigan
School for Environment and Sustainability**

2014-15 *Research Consultant.* Co-PI with Paul Mohai. *Exploring empirical evidence for Climate Justice in the Huron River Watershed* funded by the Michigan Water Center

2013-14 *Post-Doctoral Research Fellow.* PIs-Paul Mohai & Byoung-Suk Kweon. *School Siting and Environmental Justice* funded by Kresge Foundation

2008-13 University of Massachusetts Amherst

Teaching Appointments

2011 *Instructor.* Graduate Landscape Planning Studio

2009 *Teaching Assistant.* Graduate Regional Planning Studio

2008 *Co-Instructor.* Undergraduate Urban Design Studio

2009-10 *Instructor.* Introductory GIS Workshops

2009-12 *Guest Lecturer.* Undergraduate courses: *Sustainable Cities; Intro to Environmental Design;* Graduate courses: *People and the Environment; Sustainable Resource Planning and Policy*

Research Appointments

2011-13 *Research Assistant.* PIs- Warren, P., Ryan, R. & Nicolson, C. *Boston Metro Area Urban Long-Term Research Area-Exploratory project* funded by NSF seed grant

2009-10 *Research Assistant.* PI-Brabec, E. *Cultural Landscape in St. Helena Island.* PI-Ryan, R. *Heritage Landscape Atlas* funded by Commonwealth of Massachusetts, Department of Conservation and Recreation

2009-10 ESRI GIS Technical Support for the Five College Consortium

1998-99 National Taipei University, Taipei, Taiwan

Research Assistant. School of Natural Resources and Management. PI: Yun-Hsun Pang. *Improve water quality through integrated management for Kee-Lung River Watershed*

D. PROFESSIONAL DEVELOPMENT

2021 **Design Futures Workshops.** Represented ASU to join the national faculty academy. Participated in design justice training workshops at The Design School, ASU

2020-21 **Creativity Place and Equitable Communities Faculty Academy Cohort II,** HIDA and the Watts College of Public Service and Community Solutions, ASU

2020 **Design Futures Summit:** Public Interest Design Student Leadership Forum. Participated as selected faculty from 12 universities, hosted by Washington University in St. Louis. Virtual. July 16-19

2018-19 **Peer Leadership Academy Program Cohort VI** (nominated by TDS, approved by HIDA), ASU

2017 **Biomimicry Faculty Workshop** by Biomimicry Center, ASU. April 6-8, 2017. Ajo, Arizona.

2016 CITI Social and Behavioral Responsible Conduct of Research (IRB training course)

2012 Summer Academy on Social Vulnerability: *From Social Vulnerability to Resilience: Measuring Progress toward Disaster Risk Reduction,* Scholoss Hohenkammer, Germany, July 1-7. Munich Re Foundation and the United Nations University Institute for Environment and Human Security (UNU-EHS) (A competitive selection among international PhD students)

2014 Journal of Planning Education and Research Writing Workshop Scholarship

2011 ACSP PhD Workshop Scholarship, Association of Collegiate Schools of Planning

2000 Student Summer Intern Program, EDAW

E. PROFESSIONAL APPOINTMENTS

- 2007-08 *Associate*, Phil Graham Studio-ValleyCrest Design Group, St. Petersburg, Florida
2006-07 *Project Manager*, LandDesign, Inc., Tampa, Florida
2004-06 *Senior Landscape Architect*, Wolff Landscape Architecture, Inc., Chicago, Illinois
2002-04 *Landscape Architecture Designer*, Conservation Design Forum, Elmhurst, Illinois
2001 *Planning Intern*, Cosmos International, Taipei, Taiwan
2000 *Landscape Architecture Intern*, EDAW, Brisbane, Australia
1997 *Landscape Architecture Intern*, Landscape International, Lt. Taipei, Taiwan

F. HONORS & RECOGNITIONS

- 2021 **Diversity Virtual Travel Awards** (mentor), 2021 IALE-North America Annual Meeting, North American Regional Association of the International Association for Landscape Ecology
2020 **Second Place**, Demonstration Project Category, U.S. Environmental Protection Agency (EPA) 2019 Campus RainWorks Challenge, directed transdisciplinary studio-research project
2020 **Educator of the Year**, Arizona Chapter American Society of Landscape Architects (AZASLA)
2019 Director's Choice Award for Services, The Design School, Arizona State University
2017 **Centennial Professorship Award**, Associated Students of Arizona State University
2013 Student Conference Scholarship, Environmental Design Research Association 44th annual conference (EDRA 44)
2012 Sustainability Conference Graduate Scholar Award, Common Ground Publishing
2007 **Study Abroad Scholarship**, Ministry of Education, Taiwan (\$50,000)
2003 **Professional Honor Award: Rt.47/Kishwaukee corridor Land Use & Transportation Plan**, Illinois Chapter American Society of Landscape Architects (ILASLA)

G. GRANTS

a) External Grants

Granted, International

- 2018-2019 **Collaborator**. 25% allocation. NTD\$ 200,000 (USD\$6,600) for 3 months. Additional award to an existing award led by PI Dr. Yao, G.C., at National Cheng Kung University, Tainan, Taiwan, to promote international collaboration. Funded by Taiwan Ministry of Science and Technology (MOST) Add-On Program (台灣科技部加值計畫). *Community Engagement for Adaptive Capacity in Resilient Communities Case Studies* 社區參與對社區韌性度研究方法與討論

Granted, National

- 2020 **Principal Investigator (PI)**. 100% allocation. \$5,600. Landscape Architecture Foundation (LAF) Case Study Investigation (CSI) Program. *ASU Tempe Orange Mall Green Infrastructure*.
2020-21 **PI**. 100% allocation. \$2,500. American Society of Landscape Architects (ASLA) Landscape Architecture Technical Information Series (LATIS). *A Practitioner's Guide to Environmental Justice*
2019-20 **Consultant**. Contractual work under project \$150,000, led by Manoa Heritage Center and University of Hawai'i Manoa, funded by National Oceanic and Atmospheric Administration (NOAA) Bay-Watershed Education and Training (B-WET) Hawaii Program. *Connecting K-12 Schools and Community Organizations to Create Meaningful Watershed Educational Experience Learning Journeys*

- 2018-22 **Co-Investigator.** 2% allocation. \$4.5M for 4 years. Arizona State University. Funded by National Science Foundation (NSF). *Central Arizona-Phoenix Long-Term Ecological Research (CAP LTER) Design with Nature: Investigating urban ecology and sustainability through the lens of Urban Ecological Infrastructure*
- 2016-18 **Co-Investigator.** 2% allocation. no-cost extension from previous award of \$2.25M. Arizona State University. Funded by National Science Foundation. *Central Arizona-Phoenix Long-Term Ecological Research (CAP LTER) Design with Nature: Investigating urban ecology and sustainability through the lens of Urban Ecological Infrastructure*

Granted, Other Sources

- 2011 **PI.** 100% allocation. \$4,999, one semester. University of Massachusetts Amherst. This grant was awarded for the support of a graduate landscape architecture studio service-learning project. Funded by Town of Braintree, MA. *Monatiquot River Watershed Study*

Not-Funded

- 2019 **PI.** \$149,947. SCC-PG: *Climate justice and community resilience-building in the built environment: Develop an integrated water-green infrastructure-heat nexus tool with vulnerable communities.* National Science Foundation.
- 2019 **Co-PI.** \$1,586,585. CNH2-L: *An Integrated Environmental and Resiliency Risk Framework for Communities.* National Science Foundation.
- 2018 **PI.** \$578,594. CNH-S: *Community-based adaptation to climate change-induced flooding for climate justice in Phoenix.* National Science Foundation.
- 2017 **Co-PI.** \$299,228. *Ecological infrastructure in desert cities: quantifying tradeoffs in integrated green infrastructure and urban agriculture.* National Science Foundation.
- 2016 **Co-PI.** \$474,201. *Advancing institutional and social capacity to improve resiliency of communities to cascading extreme environmental events in the Western United States.* National Science Foundation.
- 2015 **PI.** \$124,999. *Supporting climate justice in community-based adaptations to climate extremes with an agent-based modeling framework.* US Department of Commerce (DOC).
- 2015 **PI.** \$16,000. *Community-based green infrastructure tools to improve water quality and livability in a changing climate.* US Environmental Protection Agency (EPA).
- 2015 **PI.** \$48,238. *Engaging community with wetlands stewardship through green infrastructure neighborhood development in South Central Phoenix.* National Fish & Wildlife Foundation.

Pending

- 2021 **PI.** \$578,841 (sub-award) in *RSN: Promoting One Health across the rural-urban transition of secondary city urban Areas*, led by Texas Tech University for a total of proposed budget of \$14,986,588 for five years. National Science Foundation.

b) Internal Grants

Granted (*students advised)

- 2021-22 **PI** (\$14,474), 100% effort. Herberger Institute Research-Building Investment (HIRBI), ASU. *Climate Justicescape: Mapping inequity in urban water-energy-food nexus systems under climate change in Arizona.*
- 2021-22 **Co-PI** (\$20,978), 25% effort. Vanos, J. (PI) School of Sustainability, Ross, A. (Co-PI) College of Health Solutions, Coseo, P. (Co-PI) The Design School. *Healthy Urban Environments, ASU. Revitalizing and Reimagining Outdoor Play and Learning Environments.*
- 2020 **PI** (\$3,500+fringe benefits), 100% effort. NSF CAP LTER Summer Faculty Research Program. Global Institute of Sustainability, ASU. *Hydro-GI Lab: Assessing baseline hydrological performance of urban ecological (green) infrastructure in desert landscapes.*

- 2018-19 **Co-PI** (\$50,000), 50% effort. PI Coseo, P. (50%), Arizona State University. LightWorks, Global Institute of Sustainability, ASU. *Hawai'i Green Growth Studio: Resilient Water Design.*
- 2018-19 **Co-PI** (\$3,969.98), 20% effort. Meerow, S. (PI) School of Geographical Sciences and Urban Planning, Garcia, M. (Co-PI) and Muenich, R. (Co-PI) School of Sustainable Engineering and the Built Environment, Coseo, P. (Co-PI) The Design School. ASU Urban Climate Research Center Pilot Funding Program. *Social-ecological monitoring of green infrastructure sites in Metropolitan Phoenix.*
- 2018-20 **PI** (\$14,126.04). 30% effort. Co-PI Coseo, P. (10%), & Garshasby, M.* (60%). HIDA-APS Endowment for Sustainable Design Research, ASU. *Outdoor Thermal Comfort: Assessing the Impact of Perceptual Factors in the Experience of Heat.* Award #DR02344
- 2018 **PI** (\$5,000), 100% effort. NSF CAP LTER Summer Faculty Research Program. Global Institute of Sustainability, ASU. *Hydro-GI Lab: Assessing baseline hydrological performance of urban ecological (green) infrastructure in desert landscapes.*
- 2018-20 **PI** (\$14,975) 70% effort. Co-PIs Kelley, K. (20%) and Coseo, P. (10%), ASU. HIDA-APS Endowment for Sustainable Design Research, Arizona State University. *Desert Landscapes Hydro-Performance Lab: Green Infrastructure Baseline.* Award #DR02337
- 2017 **PI** (\$5,000), 100% effort. NSF CAP LTER Summer Faculty Research Program. Global Institute of Sustainability, ASU. *Assess stakeholders-input green infrastructure design performance on ecosystem services in regulating water and climate.*
- 2016-17 **PI** (\$22,986), 33.3% effort. LightWorks (\$13,396), HIDA Seed Grant (\$4,590), & The Design School (\$5,000), ASU. Co-PIs Coseo, P. (33.3%) & Petrucci, D. (33.3%), The Design School, ASU. *Hawai'i Green Growth studio and resilient city study.*
- 2016-17 **PI** (\$7,462), 100% effort. HIDA Seed Grant, ASU. *Investigating climate justice in American Cities.*
- 2015-16 **PI** (\$13,058) 100% effort. HIDA-APS Endowment for Sustainable Design Research, ASU. *Community-based resilience design principles and social-ecological factors in the Sonoran Desert.*
- 2014 **Co-PI.** PI Paul Mohai, University of Michigan. (\$50,000), 100% effort. Michigan Water Center, University of Michigan. *Exploring empirical evidence for climate justice in the Huron River Watershed.*
- 2012 **PhD Dissertation Research** (\$5,000 plus 2:1 match from PI-Elizabeth Brabec, University of Massachusetts Amherst) 100% effort. Massachusetts Water Resources Research Center.
- Not-Funded*
- 2019 **PI.** \$64,587. *Green Infrastructure and Community Health: Measuring social impacts of community-engaged ecological design.* Arizona State University Foundation Women and Philanthropy Program.

H. RESEARCH GROUPS & NETWORKS

- 2020- Lead organizer. NATURA Design for Justice thematic working group. Nature-based solutions for Urban Resilience in the Anthropocene (NATURA) <https://natura-net.org/>
- 2019- Research Fellow, City-as-Lab RCN Food-Energy-Water nexus research network <https://www.urbanfew.net/>
- 2019- Leader, Vulnerable, Resilient and Climate Justice Communities Work Group, Sustainable Cities and Landscapes Research Hub, Association of Pacific Rim Universities (APRU) <https://www.apru-scl-2020.org/vulnerable-resilient-and-climate-justice-communities/>

- 2017-2021 Research Fellow, Thrust A-Assess baseline conditions for sustainability & members of Green Infrastructure and Urban Flooding Affinity Groups. NSF Urban Water Innovation Network (UWIN). <https://erams.com/UWIN/>
- 2017 Member, NSF Sustainable Adaptive Gradients in the Coastal Environment (SAGE) Network. <http://www.resilient-infrastructure.org/>
- 2017 Member, PLuS Alliance. <https://www.plusalliance.org/>
- 2017 Member, Resilience Alliance. <https://www.resilienceconnections.org/membership/28>
- 2015-2021 Research Fellow, City Comparisons, Scenarios, & SETS Infrastructure Integration Working Groups. NSF Urban Resilience to Extremes Sustainability Research Network (UREx SRN). <https://sustainability.asu.edu/urbanresilience/people/>
- 2015- Research Fellow, Urban Design Interdisciplinary Research Theme (IRT). NSF Central Arizona-Phoenix Long-Term Ecological Research (CAP LTER). <https://sustainability.asu.edu/caplter/>
- 2011-13 Research Assistant. NSF Boston Metro Area Urban Long-Term Research Area-Exploratory (BMA ULTRA-ex). <https://www.umass.edu/urbaneco/>

I. PUBLICATIONS (*students advised)

a) Research Articles and Reports, peer-reviewed

14. Wu, C.-F., Chen, S.-H., **Cheng, C.**, & Trac, L.V.T. (2021). Climate Justice Planning in Global South: Applying a Coupled Nature–Human Flood Risk Assessment Framework in a Case for Ho Chi Minh City, Vietnam. *Water*. 13(15):2021. <https://doi.org/10.3390/w13152021>
13. Lai, C.-H., Liao, P.-C., Chen, S.-H., Wang, Y.-C., **Cheng, C.**, & Wu, C.-F. (2021). Risk Perception and Adaptation of Climate Change: An Assessment of Community Resilience in Rural Taiwan. *Sustainability*. (13) 3651. <https://doi.org/10.3390/su13073651>
12. Chang, H., Pallathadka, A., Sauer, J., Grimm, N., Zimmerman, R., **Cheng, C.**, Iwaniec, D., Kim, Y., Lloyd, R., McPhearson, T., Rosenzweig, B., Troxler, T., Welty, C., Brenner, R., Herreros-Cantis, P. (2021). Assessment of Urban Flood Vulnerability Using the Social-Ecological-Technological Systems Framework in Six US cities. *Sustainable Cities and Society*. (68) <https://doi.org/10.1016/j.scs.2021.102786>
11. **Cheng, C.**, & Trakas, A.* (2020). Arizona State University Orange Mall Phase I Green Infrastructure Project. *Landscape Performance Series. Landscape Architecture Foundation (LAF)* <https://doi.org/10.31353/cs1641>
10. Guswa, A.J., Hall, B., **Cheng, C.**, & Thompson, J. (2020). Co-designed land-use scenarios and their implications for storm runoff and streamflow in New England. *Environmental Management*. 66(2). <https://doi.org/10.1007/s00267-020-01342-0>
9. AlKhaled, S.*, Coseo, P., Brazel, A., **Cheng, C.**, Sailor, D., (2020). Between aspiration and actuality: A systematic review of morphological heat mitigation strategies in hot urban deserts. *Urban Climate* (31). <https://doi.org/10.1016/j.uclim.2019.100570>
8. Rosenzweig, B. R., McPhillips, L., Chang, H., **Cheng, C.**, Welty, C., Matsler, M., Iwaniec, D., & Davidson, C. (2018). Urban pluvial flood risk and opportunities for resilience. *WIREs* e1302. <https://doi.org/10.1002/wat2.1302>
7. **Cheng, C.**, Tsai, J-Y, Yang, E. Y-C, Esselman, R., Kalcic, M., Mohai, P., & Xu, X. (2017). Risk communication and climate justice planning: A case for Michigan’s Huron River watershed. *Urban Planning Journal*. 2(4) p34-50. <https://doi.org/10.17645/up.v2i4.1045>
6. **Cheng, C.**, Yang, E. Y.-C., Ryan, R.L., Yu, Q. & Brabec, E. (2017). Assessing climate change-induced flooding mitigation for adaptation in Boston’s Charles River Watershed. *Landscape and Urban Planning*, 167, 25-36. <https://doi.org/10.1016/j.landurbplan.2017.05.019>

5. **Cheng, C.**, Ryan, R.L., Warren, P.S. & Nicolson, C. (2017). Exploring stakeholders' perceptions of urban growth scenarios for metropolitan Boston (USA): The relationship between urban trees and perceived density. *Cities and The Environment (CATE)*. 10 (1) 7. <https://digitalcommons.lmu.edu/cate/vol10/iss1/7/>
4. **Cheng, C.** (2016). Spatial climate justice and green infrastructure assessment: A case for the Huron River watershed, Michigan, USA. *GI Forum*, Vol 1, 179-190. https://doi.org/10.1553/giscience2016_01_s176
3. **Cheng, C.** (2014). Resilience thinking in landscape planning: A transdisciplinary framework and a case for climate change adaptation. *Landscape Research Record*, No.2, 178-189.
2. Danford, R., **Cheng, C.**, Strohbach, M.S., Nicolson, C., Ryan, R. L. & Warren, P.S. (2014). What does it take to achieve equitable urban tree canopy distribution? A Boston case study. *Cities and The Environment (CATE)*, Vol 7: Iss. 1, Article 2. <https://digitalcommons.lmu.edu/cate/vol7/iss1/2>
1. **Cheng, C.**, Brabec, E.A., Yang, Y. & Ryan, R.L. (2013). Rethinking stormwater in a changing world: Effects of detention for flooding hazard mitigation under climate change scenarios in the Charles River watershed. *Landscape Research Record*, No.1, 214-228.

b) Book Chapters

- 5-8. **Cheng, C.** session leader of Vulnerable and Resilient Communities. In: Yang, Z. & Taufen, A. (eds), *The Routledge Handbook of Sustainable Cities and Landscapes* (in review).
4. **Cheng, C.** (2019b). Climate justicescape and implications for urban resilience in American cities. In: Burayidi, M., Twigg, J., Allen, A., & Wamlester, C. (eds), *The Routledge Handbook of Urban Resilience* (pp. 83-96). New York, NY: Routledge, Taylor & Francis Books.
3. **Cheng C.** (2019a). EcoWisdom for Climate justice planning: Social-ecological vulnerability assessment in Boston's Charles River watershed. In: Yang B., Young R. (eds), *Ecological Wisdom: Theory and Practice* (pp. 249-265). Singapore: Springer. DOI: 10.1007/978-981-13-0571-9_13
2. **Cheng, C.** (2016). Energy and economic reform under climate change policies in the USA. In: Chou, K-T. & Lin, Z-L. (eds), *Fourteen Lessons in Energy Reform in Taiwan* (pp. 79-94). Taipei, Taiwan: Chuliu Publisher 巨流圖書有限公司 (in Traditional Chinese)
1. **Cheng, C.** (2014). Social vulnerability, green infrastructure, urbanization and climate change-induced flooding: An integrated risk assessment and planning framework for the Charles River watershed in the Boston Metropolitan Area, USA. In: Moccia, F.D. & Palestino, M.F. (eds), *Planning stormwater resilient urban open spaces* (pp. 82-90). Napoli, Italy: CLEAN Edizioni.

c) Conference Proceedings

7. Xie, Y.*, Mejia, M., Coseo, P., & **Cheng, C.** (2020). A participatory design case study in environmental design education. *Participatory Design Conference*, June 15-19. Manizales, Colombia.
6. **Cheng, C.**, Chiang, L.-C., Yao, G.C., & Chou, W.-J. (2019). Climate Justice and integrated flooding risk assessment and management: A framework and case studies in USA and Taiwan. *Proceedings of Joint Association of European Schools of Planning (AESOP) Annual Congress*. July 9-12, Venice, Italy.
5. **Cheng, C.** & Garshasby, M.*(2016). Resilient greenway: A participatory planning framework. *5th Fábos Conference on Landscape and Greenway Planning*. June 30-July 3, Budapest, Hungary.
4. **Cheng, C.** (2014). Resilient growth with climate justice: A social-environmental climate vulnerability assessment framework for spatial planning. *European Schools of Planning (AESOP)*. July 9-12, Utrecht-Delft, the Netherlands.
3. **Cheng, C.**, Brabec, E.A., Ryan, R.L., Yang, Y., Nicolson, C. & Warren, P.S. (2013). Future flooding risk assessment under growth scenarios and climate change Impacts for the Charles River watershed in the Boston Metropolitan Area. *Proceedings of Joint Association of European Schools of Planning (AESOP) and The Association of Collegiate Schools of Planning (ACSP) Annual Congress*. July 15-19, Dublin, Ireland.

2. **Cheng, C.**, Brabec, E.A., Yang, Y. & Ryan, R.L. (2013). Effects of detention for flooding mitigation under climate change scenarios: Implications for landscape planning in the Charles River Watershed, Massachusetts, USA. *Fábos Conference on Landscape and Greenway Planning*. April 12-13, University of Massachusetts Amherst.
1. **Cheng, C.** & Randhir, T.O. (2010). A sustainability evaluation and dynamic modeling tool for landscape and urban planning policy scenarios. *Proceedings of Fábos Conference on Landscape and Greenway Planning*. ed. Fábos, J.G., Ryan, R.L., Lindhult, M., Kumble, P., Kollányi, L., Ahern, J. & Jombach, J. University of Massachusetts Amherst and Corvinus University of Budapest. July 8-11, Budapest, Hungary.

d) Dissertation and Thesis

2. **Cheng, C.** (2013). *Social vulnerability, green infrastructure, urbanization and climate change-induced flooding: A risk assessment for the Charles River watershed, Massachusetts, USA*. University of Massachusetts Amherst, Amherst, Massachusetts.
1. **Cheng, C.**, Gaebel, D., St. Pierre, J. & Willow, A. (2001). *A resting place for the ducks: A multidisciplinary analysis of floodplain restoration of the Hennepin Levee District, IL*. University of Michigan, Ann Arbor, Michigan. (partial presentation <https://slideplayer.com/slide/3500346/>)

e) Invited Periodicals

5. Martin, T., & **Cheng, C.** (2020). In Case You Missed It: Environmental Justice PPN at ASLA San Diego. In THE FIELD: ASLA Professional Practice Networks' Blog <https://thefield.asla.org/tag/chingwen-cheng/>
4. **Cheng, C.** & Martin, T. (2019). Environmental Justice Survey Findings. In THE FIELD: ASLA Professional Practice Networks' Blog <https://thefield.asla.org/tag/chingwen-cheng/>
3. **Cheng, C.** (2016). Planning for climate justice in American cities. In UGEC Point: A Blog on Urbanization and Global Environmental Change. <https://ugecviewpoints.wordpress.com/2016/08/16/planning-for-climate-justice-in-american-cities/>
2. **Cheng, C.** (2016). Resilient City-Making. In *Special Issue: Resilient City*, Periodical vol. 8. Publishing: Taiwan Institute of Urban Planning, Taipei, Taiwan (in Traditional Chinese).
1. Ryan, R.L., Warren, P.S., Nicolson, C., **Cheng, C.**, Danford, R. & Strohbach, M.S. (2013). Scenario planning for the Boston metropolitan region: Exploring environmental and social Implications of alternative futures. *Landscape Architecture China*, Issue 107 (translated into Simplified Chinese).

f) Technical Reports

8. **Cheng, C.**, & Singer, E.* (in review). *A Practitioner's Guide to Environmental Justice*. American Society of Landscape Architects Technical Information Series (LATIS).
7. Hou, J., Boone, K., Bose, M., **Cheng, C.**, de la Peña, D., Langhorst, J., Lawson, L., Rios, M., & Ruggeri, D. (2020). *Design as Activism: Landscape Architecture education in a time of global crises: a framework for actions and other propositions*. Funded by Landscape Architecture Foundation. <http://designactivism.be.uw.edu/>
6. **Cheng, C.** (2008). Infrastructure. *Visions of Smart Growth and Sustainability: Florida Chapter ASLA Charrette to Illustrate Tools for Better Urban Growth and Environmental Stewardship*. ASLA Publishing.
5. **Cheng, C.** & Haugland, J. (2005). Conservation Research Institute Built-Site Cost Analysis in *Changing Cost Perceptions: An Analysis of Conservation Development*. Illinois Conservation Foundation and Chicago Wilderness.
4. Price, T. & **Cheng, C.** (2004). *Bear Creek & Bear Lake Watershed Stormwater Management Plan*. Muskegon Conservation District.
3. Price, T., Maxwell, S., **Cheng, C.** & Fordham, M. (2004). *Conservation Development in Practice*. The Nature Conservancy and Chicago Wilderness.
2. Price, T. & **Cheng, C.** (2004). *Fish Lake Drain Watershed Management Plan*. Lake County, Illinois.

1. McGhee-Hassrick, C., Price T. & **Cheng, C.** (2004). *Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations* for nine counties in Illinois.

J. INVITED TALKS (*students advised)

a) International/Out-of-USA

18. **Cheng, C.** (2021). *Intersection between Systemic Vulnerability, Community Resilience, Climate Justice and Sustainability*. Earth Future Taipei Early Career Researchers Webinar Series. June 4, Taipei, Taiwan. Virtual.
17. **Cheng, C.** (2021). *Resilience Theory and Practices*. Asia Pacific Mayors Academy for Sustainable Development, Module 4: Urban Resilience. February 9, Bangkok, Thailand. Virtual.
16. **Cheng, C.** (2019). *One Water: Integrated water resources management and design*. Department of Civil Engineering, National Cheng Kung University, December 24, Tainan, Taiwan.
15. **Cheng, C.** (2019). *Climate Justice and Resilient Communities*. Department of Urban Planning, National Cheng Kung University, December 23, Tainan, Taiwan.
14. **Cheng, C.** (2019). *Process matters more than products! Engaging communities in green infrastructure design: tools and practices*. Department of Landscape Architecture, National Chin-Yi University of Technology, December 18, Taichung, Taiwan.
13. **Cheng, C.** (2018). *Climate Change and Sustainable Development*. Graduate studies of public policies and economics, Institute of Political Economy, National Cheng Kung University, December 25, Tainan, Taiwan.
12. **Cheng, C.** (2018). *Adaptation and Action for Coping with Climate Change in Spatial Planning*. Resilience Community Case Study Forum. Department of Urban Planning, National Cheng Kung University, October 26, Tainan, Taiwan.
11. **Cheng, C.** (2015). *Environmental and climate justice case studies in USA*. Risk Society and Policy Research Center, College of Social Sciences, National Taiwan University. July 14, Taipei, Taiwan.
10. **Cheng, C.** (2015). *Landscape architecture and climate change: The role of resilience theory and green infrastructure design*. Department of Horticulture and Landscape Architecture, National Taiwan University. June 23, Taipei, Taiwan.
9. **Cheng, C.** (2015). *Landscape architecture and climate change: The role of transdisciplinary planning and green infrastructure design*. Department of Environmental and Cultural Resources, National Tsing Hua University, June 22, Hsinchu, Taiwan.
8. **Cheng, C.** (2015). *Climate change and landscape architecture: Enhancing ecosystem services in green infrastructure for climate change planning*. Department of Landscape Architecture, National Chiayi University. May 27, Chiayi, Taiwan.
7. **Cheng, C.** (2015). *Transdisciplinary research and practice: Examples from urban planning and landscape architecture*. Department of Geology, National Taiwan University, May 14, Taipei, Taiwan.
6. **Cheng, C.** (2015). *Social-ecological resilience for climate change: Climate change-induced flooding risk assessment and the role of green infrastructure in climate change adaptation*. Department of Urban Planning, National Cheng Kung University. April 22, Tainan, Taiwan.
5. **Cheng, C.** (2015). *Transdisciplinary management: A case for climate change and urban planning*. Graduate Institute of Technology Management, National Taiwan University of Science and Technology. April 16, Taipei, Taiwan.
4. **Cheng, C.** (2015). *Sustainable cities: The role of landscape architecture under climate change*. Department of Urban Planning and Landscape Architecture, National Quemoy University. January 6, Kinmen, Taiwan.

3. **Cheng, C.** (2014). *Social-ecological resilience for climate change: The role of transdisciplinary urban growth and green infrastructure*. Global Change Research Center, National Taiwan University. December 1, Taipei, Taiwan.
2. **Cheng, C.** (2014). *Climate Change and Environmental Governance Symposium*. Risk Society and Policy Research Center in College of Social Sciences, National Taiwan University. December 20, Taipei, Taiwan. **Invited Panel correspondent.**
1. **Cheng, C.** (2011). *The role of public participation in community planning: A case study of Monatiquot watershed study in Braintree, Massachusetts*. Shanghai Pudong Architectural Design and Research Institute Co.,Ltd. & College of Architecture and Urban Planning, Tongji University. June 21, Shanghai, China.

b) National/Out-of-State

7. **Cheng, C.** (2021). *Urban Waters: Co-Design Nature-Based Solutions with communities for sustainable, resilient, and just water systems*. NSF City-As-Lab Research Collaboration Network Webinar Series. June 18, New York, New York. Virtual. <https://www.urbanfew.net/2021>
6. Yatabe, N., **Cheng, C.**, Colwell, A., & Quinn, C. (2021). *ASU Orange Mall Green Infrastructure Project*. Sustainable Sites Initiatives (SITES) Community Call Series. Green Business Certification Inc. February 24 Webinar, CEU qualified. Virtual <https://www.youtube.com/watch?v=w0ZfAsjfwYU>
5. **Cheng, C.** & Trakas, A.* (2020). *Arizona State University Orange Mall Green Infrastructure Project*. A panelist in *Measuring Landscape Performance: Findings & Insights from LAF's 2020 CSI Program*, Landscape Architecture Foundation Webinar, August 5. Virtual. <https://www.lafoundation.org/resources/2020/07/2020-csi-finale-webinar> (1:01:50-1:16-48)
4. **Cheng, C.** (2020). *Climate justicescape and landscape planning*. Department of Landscape Architecture, University of Oregon. May 14, guest lecture in Dr. Y. Ko's course: Introduction to Landscape Planning Analysis. Virtual.
3. **Cheng, C.** (2020). *Post-colonial decolonization of community design: Learning from Hawai'i and Taiwan*. Co-hosted by the Asian Cultural Heritage Forum, Taiwan Forum, and Preservation Studies Program at Boston University. March 5, Boston, Massachusetts.
2. **Cheng, C.** (2019). *Climate justice and green infrastructure for resilient communities*. In **plenary session** at Stormwater Quality BMPs Workshops, City and County of Honolulu and Hawaii Water Environment Association (HWEA), Hawaii Convention Center, July 24-26, Honolulu, HI.
1. **Cheng, C.** (2016). *Climate justice assessment and implications in social-ecological resilience planning*. The Ecological Planning Center, Department of City and Regional Planning, University of Utah. March 24, Salt Lake, Utah.

c) Regional/State-wide

4. **Cheng, C.** (2020). *Green Infrastructure Design for Just, Resilient, and Sustainable Environments and Communities*. City of Tucson Water Department, Citizens' Water Advisory Committee Technical Planning and Policy Subcommittee. December 10. virtual.
3. **Cheng, C.** (2018). *Stakeholder-driven land use and climate change scenarios and flooding implication in New England*. Arizona Hydrological Society Phoenix Chapter Meeting. October 10, Phoenix, Arizona.
2. **Cheng, C.** (2018). *Defend our Science Arizona*. Defend Our Future. April 5, Tempe, Arizona. **Invited Panelist.**
1. **Cheng, C.** (2010). *Green infrastructure approach to community planning*. Mass Audubon Shaping the Future of Your Community program. October 14. Norton, MA.

d) ASU University-wide

7. **Cheng, C.** (2020). Guest lecturer. SOS 498 Capstone Design Project, School of Sustainability.

6. **Cheng, C.** (2020). *UN Sustainable Development Goals series on Goal 11: Sustainable Cities and Communities*. Sustainability Committee at Changemaker Central (a student-led organization), Arizona State University. February 11, Tempe, Arizona. **Invited panelist.**
5. **Cheng, C.,** Mejia, M., & Vallerand, O. (2019). *Transform in Design Research: Socially Embedded Collaboration*. Agents of Change: Futures of Hope, Futures of Concern, Global Futures Laboratory, plenary exhibition, October 24-25, Tempe, Arizona.
4. **Cheng, C.** (2019). *Climate change-induced flooding, green infrastructure, and climate justice planning*. CEE 591 Topic: Hydrosystems Engineering Seminar. School of Sustainable Engineering and the Built Environment. March 20, Tempe, Arizona.
3. **Cheng, C.** (2018). *Ecological design as a catalyst for social change: The role of community engagement in green infrastructure design process*. Graduate Club in School of Community Resources and Development (SCRD), Arizona State University. October 12, Phoenix, Arizona.
2. **Cheng, C.** (2017). *Applied sustainability science: Landscape Architecture*. SCN 400 Sustainability Science for Teachers. Teachers College. March 14, Tempe, Arizona.
1. **Cheng, C.** (2016). *Examining spatial patterns of climate justice in American cities*. Arizona State University Library GIS Day. November 18, Tempe, Arizona.

e) HIDA Institution-wide (course numbers, *regular guest lecturer)

8. APH 598 Topic: Desiring Cities
7. EPD 700* Design Research
6. ADE 622 Adv Architectural Studio IV
5. APH 515/INT 521/MUD 692 Contemporary Topics: Equity in Design
4. LAP 352 Ecosystems and Sustainable Design
3. LAP 332 Introduction to GIS
2. AME 294* Soundscape Ecology
1. ALA 102* Landscapes and Sustainability

K. COLLABORATIVE WORKSHOPS/SYMPOSIUM/WEBINARS (invited, non-peer-reviewed)

18. **Organizer and Speaker.** (2021). Water Nexus Series in NSF City-As-Lab Research Collaboration Network Webinar Series. June 18-August 27, bi-weekly.
17. **Organizer and Speaker.** (2021). Asia Pacific Mayors Academy for Sustainable Development, Module 4: Urban Resilience. February 9. Virtual.
16. **Panelist.** (2021). Session on Resilience Governance, Governance Analysis Task Force, UREx SRN All Hands Meeting. March 29-April 1. virtual.
15. **Panelist.** (2021). *NATURA Design for Justice* thematic working group. Nature-based solutions for Urban Resilience in the Anthropocene (NATURA) All Hands Meeting. February 22-26. virtual.
14. **Chair.** (2020). Vulnerable, Resilient and Climate Justice Communities Working Group in the Association of Pacific Rim Universities (APRU) *the 4th Sustainable Cities and Landscape Conference*. December 14-18, Auckland, New Zealand, virtual.
13. **Organizer and Speaker.** (2020). *From Environmental Justice to Climate Justice*, reVISION ASLA 2020 EJ PPN Virtual Networking Sessions. November 16. virtual.
12. **Panelist.** (2020). *A Student's Guide to Environmental Justice Webinar*. American Society of Landscape Architects. October 14. virtual.
11. **Lead organizer.** (2020). *NATURA Design for Justice* thematic working group. Nature-based solutions for Urban Resilience in the Anthropocene (NATURA) All Hands Meeting. June 16-18. virtual.

10. **Plenary session organizer.** (2020). Post-Colonial Decolonization Design with Communities: Transform our design thinking, research, and practice moving forward. *Environmental Design Research Association (EDRA) 51st Annual Conference*. April 4-7. virtual.
9. **Co-organizer & Speaker. Cheng, C. & Martin, T.** (2019). EJ PPN: State of knowledge of Environmental Justice in practice and action plans to move forward. *American Society of Landscape Architects (ASLA) Annual Meeting and Expo*. November 14-18, San Diego, California.
8. **Chair.** (2019). Vulnerable Communities Working Group in APRU *the 3rd Sustainable Cities and Landscape Conference*. Aug. 29-Sep. 1, Sydney, Australia.
7. **Panelist. Cheng, C.** (2019). *Convergence Science in Urban Design: Co-Production of Social-Ecological Outcomes in Green Infrastructure Design Process and Products*. Urban Design Theme Session in Networking for Environmental Sustainability in Arid Region Urban Communities. Aug. 14-16. Texas Tech University, Lubbock, Texas. A National Science Foundation funded workshop.
6. **Co-organizer.** (2019). SETs Vulnerability Assessment Workshop in the UREx SRN All Hands Meeting. April 16-19, Baltimore, Maryland.
5. **Co-organizer.** (2018). A symposium on *Hydrologic Performance, Design, and Engineering of Green Stormwater Infrastructure in Arid Environments*. Hosted by the Decision Center for Desert City, Arizona State University. November 2, Tempe, Arizona.
4. **Organizer & Presenter. Cheng, C.** (2018). Environmental and climate justice in community design: Case studies and tools. *Environmental Justice Professional Practice Network at American Society of Landscape Architects (ASLA) Annual Meeting and Expo*. October 19-22, Philadelphia, Pennsylvania.
3. **Member.** (2018). Coastlines and People (CoPe) Scoping Sessions. September 26-28. Virtual workshop hosted by the University Cooperation for Atmospheric Research (UCAR) and facilitated by KnowInnovation on behalf of the National Science Foundation (NSF).
2. **Member.** (2018). Vulnerable Communities Working Group in APRU *The 2nd Sustainable Cities and Landscape Conference*. September 6-9, Hong Kong.
1. **Member.** (2017). Redrawing Our Urban Waters Working Group in APRU *The 1st Sustainable Cities and Landscape Conference*. September 15-17, Portland, Oregon.

L. CONFERENCES (*students advised)

a) Oral Presentations, Peer-Reviewed

61. Garshasby, M.* & **Cheng, C.** (2021). Subjective Aspects of Thermal Comfort: A New Approach to Assessing the Impact of Psychological Factors on Thermal Experience. *Environmental Design Research Association (EDRA) 52nd Annual Conference*. May 19-23. virtual.
60. **Cheng, C.**, Matsler, M., Sioen, G., & Keeler, B. (2021). Justice Design in Nature-based solutions: An inquiry of perceived justice outcomes. *IALE-North America Annual Meeting, North American Regional Association of the International Association for Landscape Ecology*. April 12-16. virtual.
59. **Cheng, C.**, Setayesh, P., Solecki, W., Chang, H., Muñoz-Erickson, T.A., Davidson, C., Troxler, T., Gim, C., Kim, Y., Hobbins, R., Iwaniec, D.M., Berbés-Blázquez, M., McPhearson, T., & Rosenzweig, B. (2021). Understanding the knowledge gaps between flooding data and risk perceptions for building institutional resilience: A comparative analysis of flood risk knowledge systems across seven North American cities. *American Society of Geographers Annual Meeting*. April 7-11. virtual.
57. Bose, M., **Cheng, C.**, Rios, M., & Stevens, J. (2021). Decolonizing Landscape Architecture Education (Session 2): Cultural and Institutional Transformation. *Council of Educators in Landscape Architecture (CELA) Annual Conference*. March 17-20. Virtual. **Main Stage (Panel)**

57. **Cheng, C.** & Trakas, A.*(2021). LAF CSI 2020: ASU Orange Mall Green Infrastructure Project Landscape Performance Study. *Council of Educators in Landscape Architecture (CELA) Annual Conference*. March 17-20. Virtual.
56. Garshasby, M.*, **Cheng, C.**, & Coseo, P. (2020). Outdoor thermal comfort: a comparative study across climates examining the impact of familiarity on comfort and perception of heat. The 54th *International Conference of the Architectural Science Association (ANZAScA)*. November 25-28. virtual.
55. McPhearson, T., Cook, E., Grimm, N.B., Berbés-Blázquez, M., & **Cheng, C.** (2020). A SETS approach to urban nature-based solutions. *Ecological Society of America Annual Meeting*. August 3-6. virtual.
54. **Cheng, C.**, Paul Coseo, P., Trakas, A.,* & Kelley, K. (2020). LID in a Desert City: Design experiment of hydro-ecological performance evaluation for bioretention details in Phoenix, Arizona. *International Low Impact Development Conference*. July 20-24. virtual.
53. **Cheng, C.** (2020). Connect before collaborate: Learning from Hawai'ians for decolonizing design. *Environmental Design Research Association (EDRA) 51st Annual Conference*. April 4-7. virtual.
52. Hou, J., Bose, M., de la Peña, D., **Cheng, C.**, & Ruggeri, D. (2020). Education of design activists: Examining models, lessons, and proposals. *Environmental Design Research Association (EDRA) 51st Annual Conference*. April 4-7. virtual.
51. Garshasby, M.* & **Cheng, C.** (2020). Thermal comfort in outdoor environment: Assessing the impact of psychological adaptation factors in the experience of heat. *Environmental Design Research Association (EDRA) 51st Annual Conference*. April 4-7. virtual.
50. Darvish, T.* & **Cheng, C.** (2020). Design empathy and civic practice of critical placemaking: A case for women-only fitness centers. *Environmental Design Research Association (EDRA) 51st Annual Conference*. April 4-7. virtual.
49. Xie, Y.*, **Cheng, C.**, Coseo, C., & Mejia, G.M. (2020). Co-creating with community: Participatory design in environmental design education. *Environmental Design Research Association (EDRA) 51st Annual Conference*. April 4-7. virtual.
48. AlKhaled, S.*, Coseo, P., Middel, A., Brazel, A., **Cheng, C.**, (2020). Cooling potentials of rooftop shade: A promising strategy for reducing urban induced heating in Kuwait's residential neighborhoods. *Environmental Design Research Association (EDRA) 51st Annual Conference*. April 4-7. virtual.
47. Alamdari, N., Hathaway, J.M., Rosenzweig, B., & **Cheng, C.** (2019). Non-stationary impacts in urban hydrology: Water, Energy, and Society. *American Geophysical Union (AGU) Fall Meeting*. December 6-13, San Francisco, California. **(Session Co-Convener)**
46. Sanchez, C.A.*, Childers, D., **Cheng, C.**, & York, A. (2019). Designing and implementing ecological monitoring of aridland urban ecological infrastructure (UEI): A case study of design process and outcomes. *Arizona Hydrological Society (AHS) 32nd Annual Symposium*. September 25-27. Tucson, Arizona. **(Presented for the student author)**
45. **Cheng, C.**, Chiang, L.-C., Yao, G.C., & Wen-Jyun Chou, W.-J. (2019). Climate justice and integrated flooding risk assessment and management: A framework and case studies in USA and Taiwan. *Association of European Schools of Planning (AESOP) Annual Congress*. July 9-12, Venice, Italy.
44. **Cheng, C.**, & Mu, L. (2019). Climate justicescape: Integrating green infrastructure in social-ecological-technological vulnerability assessment for identifying climate justice patterns in USA. *10th International Association for Landscape Ecology (IALE) World Congress*, July 1-5, Milan, Italy.
43. **Cheng, C.**, Tsai, J.-Y., Mu, L. (2019). Climate justice distribution and public attitudes toward climate actions in USA. *Environmental Design Research Association (EDRA) 50th Annual Conference*. May 22-26. Brooklyn, New York.
42. Garshasby, M.*, **Cheng, C.**, Coseo, P. (2019). Design for outdoor thermal comfort: Assessing the perceptual factors in the experience of heat in the built environment. *Environmental Design Research Association (EDRA) 50th Annual Conference*. May 22-26. Brooklyn, New York.

41. Choat, B., Pulido, A., Bhaskar, A., **Cheng, C.**, Cherrier, J., Flynn, C., Hale, R., Hopkins, K., McPhillips, L., Meixner, T., Ripplinger, J., Smith, B., & Zhang, H. (2019). Cross-city comparison of stormwater control measure type and density. *World Environmental and Water Resources Congress*. May 19-23, Pittsburg, Pennsylvania.
40. **Cheng, C.**, Ruggeri, D., & Stordalen, T. C. (2019). Ecological design as a catalyst for social change: An assessment framework and case studies in USA and Europe. *Council of Educators in Landscape Architecture (CELA) Annual Conference*. March 6-9. Sacramento, California.
39. Cerra, J., Chanse, V., **Cheng, C.**, Klosterwill, K., Pitt, D. (2019). Engaged scholarship to catalyze adoption of design strategies for climate change adaptation and mitigation. *Council of Educators in Landscape Architecture (CELA) Annual Conference*. March 6-9. Sacramento, California. (**Panel Presenter**)
38. AlKhaled, S.*, Coseo, P., Brazel, A., **Cheng, C.**, (2019). Characterizing the urban climate of Kuwait: Urban morphology and thermal variations. *24th Conference on Applied Climatology / 99th Annual American Meteorological Society Meeting*. January 9, Phoenix, Arizona.
37. **Cheng, C.** (2018). Social-ecological experimental design and hydrological performance of green infrastructure in desert cities. *Arizona Hydrological Society (AHS) 31st Annual Symposium, The Importance of Hydrology in a Vibrant Southwest*. September 19-21. Phoenix, Arizona.
36. **Cheng, C.** (2018). Green infrastructure, climate change associated hazards, and equity: A social-ecological vulnerability spatial assessment in the USA. *Global Land Programme (GLP) 2018 Asia Conference*. September 3-5. Taipei, Taiwan.
35. **Cheng, C.**, Tsai, J-Y, & Yang, E. Y-C (2018). Climate justice by design: Perceived and actual institutional capacity in green infrastructure for climate change adaptation. *Environmental Design Research Association (EDRA) 49th Annual Conference*. June 6-9. Oklahoma City, Oklahoma.
34. Lee, J.*, **Cheng, C.**, & Cook, E. (2018). Prioritizing green infrastructure to address urban flooding for social equity in Phoenix, Arizona. *Environmental Design Research Association (EDRA) 49th Annual Conference*. June 6-9. Oklahoma City, Oklahoma.
33. Chowdhury, R., Hydrick, G., **Cheng, C.**, Barnett, A., Eisenmann, D., Santos-Hernandez, J., & Shandas, V. (2018). A conceptual framework for urban vulnerability analysis in sustainability science: Integrating socio-ecological-technological systems. *American Association of Geographers (AAG) Annual Meeting*. April 10-14. New Orleans, Louisiana.
32. **Cheng, C.** (2018). Resilience thinking toward transformation: Social-ecological vulnerability to climate change in the Sonoran desert region. *Council of Educators in Landscape Architecture (CELA) Annual Conference*. March 21-24. Blacksburg, Virginia.
31. McPhillips, L., **Cheng, C.**, McPhearson, T., & Grimm, N. (2017). SETs vulnerability assessment to climate extremes: Cross-city spatial comparison of green infrastructure distribution in the US and Latin America. *The Program on Ecosystem Change and Society (PECS) conference*. November 10-13. Oaxaca City, Mexico.
30. Cook, E., Barbosa, O., Barbés-Blázquez, M., **Cheng, C.**, Grimm, N., Iwaniec, D., & McPhearson, T. (2017). SETs vulnerability assessment to climate extremes: A social-ecological-technological systems (SETS) approach to urban ecosystem services. *The Program on Ecosystem Change and Society (PECS) conference*. November 10-13. Oaxaca City, Mexico.
29. **Cheng, C.**, Tsai, J-Y, Yang, E. Y-C, Esselman, R., Kalcic, M., Xu, X. & Mohai, P. (2017). Climate justice, risk communication, and planning: A case for Michigan's Huron River watershed. *Association of Collegiate Schools of Planning (ACSP) 57th Annual Conference*. October 12-15, Denver, Colorado.
28. **Cheng, C.**, Grimm, N., McPhillips, L., Lee, J. & Palta, M. (2017). Green infrastructure, urban resilience and social sustainability. *Resilience 2017 Conference*. August 20-23, Stockholm, Sweden.

27. McPhearson, T., Cook, E., **Cheng, C.**, & Grimm, N.B. (2017). Climate resilience in urban social-ecological-technical systems: A SETS approach to urban ecosystem services. *Resilience 2017 Conference*, August 20-23, Stockholm, Sweden.
26. Grimm, N., Blázquez, M.B., **Cheng, C.**, Cook, E.M., McPhearson, T., McPhillips, L.E., (2017). Assessing urban aquatic services in the face of climate-driven extreme events in *SYMP 1 - Aquatic Ecosystem Services in a Changing World. Ecological Society of America (ESA) Annual Meeting*, August 6-11, Portland, Oregon.
25. **Cheng, C.**, Tsai, J-Y, Yang, E. Y-C, Esselman, R., Kalcic, M., Xu, X. & Mohai, P. (2017). How voices inform design for climate justice and green infrastructure: A case for Michigan's Huron River watershed. *Environmental Design Research Association (EDRA) 44th Annual Conference*. May 31-June 3, Madison, Wisconsin.
24. Lee, J.* & **Cheng, C.** (2017). Land cover patterns and water quality for sustainable urban drainage systems. *Council of Educators in Landscape Architecture (CELA) Annual Conference*, May 26-29, Beijing, China.
23. Lee, J.* & **Cheng, C.** (2017). Land use patterns, water quality, and social vulnerability: A spatial analysis of Phoenix's drainage systems. *United States Section of the International Association for Landscape Ecology (US-IALE) Annual Conference*. April 9-13, Baltimore, Maryland.
22. **Cheng, C.** (2016) Climate justicescape in American cities. *Association of Collegiate Schools of Planning (ACSP) 56th Annual Conference*. November 3-6, Portland, Oregon.
21. **Cheng, C.** (2016). Social-ecological resilience and green infrastructure planning: A call for climate justice in eco-cities. *The second Congress for the Society of Urban Ecology (SURE)*. July 8-10, Shanghai, China.
20. **Cheng, C.** & Garshasby, M.* (2016). Resilient greenway: A participatory planning framework. *5th Fábos Conference on Landscape and Greenway Planning*. June 30-July 3, Budapest, Hungary.
19. **Cheng, C.** (2016). Investigating climate Justice in green infrastructure planning: A case for the Huron River watershed, Michigan. *Council of Educators in Landscape Architecture (CELA) Annual Conference*. March 23-26, Salt Lake City/Logan, Utah.
18. **Cheng, C.** (2015) Climate justice and implications in climate change adaptation planning for the Huron River watershed, Michigan. *Association of Collegiate Schools of Planning (ACSP) 55th Annual Conference: Justice and the City: (re)Examining the Past to Create the Future*. October 22-25, Houston, Texas.
17. **Cheng, C.** (2014). Resilient growth with climate justice: A social-environmental climate vulnerability assessment framework for spatial planning. *European Schools of Planning (AESOP)*. July 9-12, Utrecht-Delft, the Netherlands.
16. **Cheng, C.** (2014). Resilience thinking in landscape planning: A transdisciplinary conceptual framework. *Council of Educators in Landscape Architecture (CELA) Annual Conference*. March 27-30, Baltimore, Maryland.
15. **Cheng, C.**, Ryan, R.L., Warren, P.S. & Nicolson, C. (2014). Planning in the linked social-ecological systems: A conceptual framework and a case for the BMA ULTRA-ex Project. *Environmental Design Research Association (EDRA) 45rd Annual Conference: Built with Change*. May 28-31, New Orleans, Louisiana.
14. Hutyra, L., Yang, Y., Kim, J., **Cheng, C.**, O'Brien, P., Rouhani, S., Douglas, E. M., Nicolson, C., Ryan, R., Schaaf, C., Warren, P., & Wollheim, W. M. (2013). Future scenarios of urbanization and its effects on water quantity and quality in three New England watersheds. *American Geophysical Union (AGU) Fall Meeting*. December 9-13, San Francisco, California.
13. **Cheng, C.**, Brabec, E.A., Ryan, R.L., Yang, Y., Nicolson, C. & Warren, P.S. (2013). Future flooding risk assessment under growth scenarios and climate change impacts for the Charles River watershed in

the Boston metropolitan area. *Association of European Schools of Planning (AESOP) and The Association of Collegiate Schools of Planning (ACSP) Joint Congress*. July 15-19, Dublin, Ireland.

12. **Cheng, C.**, Brabec, E.A., Yang, Y. & Ryan, R.L. (2013). Effects of detention for flooding mitigation under climate change scenarios: Implications for landscape planning in the Charles River Watershed, Massachusetts, USA. *Fábos Conference on Landscape and Greenway Planning*. April 12-13, University of Massachusetts Amherst, Amherst, Massachusetts.
11. Ryan, R.L., Warren, P.S., Nicolson, C., **Cheng, C.**, Danford, R. & Strohbach, M.S. (2013). Scenario planning for the Boston metropolitan region: Exploring environmental and social implications of alternative futures. *Fábos Conference on Landscape and Greenway Planning*. April 12-13, University of Massachusetts Amherst, Amherst, Massachusetts.
10. **Cheng, C.**, Brabec, E.A., Yang, Y. & Ryan, R.L. (2013). Rethinking stormwater management in a changing world: Effects of detention for flooding mitigation under climate change scenarios in the Charles River Watershed. *Council of Educators in Landscape Architecture (CELA) Annual Conference*, March 27-30, Austin, Texas.
9. **Cheng, C.**, Danford, R. & Ryan, R.L. (2013). Community engagement in urban greening for healthy and equitable neighborhoods: Insights from the Boston Metro Area Urban Long Term Research Area project (BMA ULTRA-Ex): **Cheng, C.** & Ryan, R.L. (2013). Stakeholder engagement in shaping the urban landscape: Mixed methods analysis of stakeholder workshop evaluation for urban greening scenarios in the Boston Metro Area. *Environmental Design Research Association (EDRA) 44th Annual Conference*, May 29-June 1, Providence, Rhode Island. **(Group Symposia Organizer & Presenter)**
8. **Cheng, C.**, Ryan, R.L., Warren, P.S. & Nicolson, C. (2012). Scenario planning process with stakeholders for sustainability: A Case for BMA-ULTRA greening scenarios stakeholders workshop evaluation. *Environmental Design Research Association (EDRA) 43rd Annual Conference*, May 30-June 2, Seattle, Washington.
7. **Cheng, C.**, Brabec, E.A., Ryan, R.L., Yang, Y. & Yu, Q. (2012). Rethinking stormwater management and flooding vulnerability in a changing world: The role of green infrastructure for climate change adaptation. *US Regional Association for International Association of Landscape Ecology (US-IALE) Symposium: Informing Decisions in a Changing World*, April 8-12, Newport, Rhode Island.
6. **Cheng, C.** (2012). Social vulnerability assessment framework for climate change resilience planning. *8th International Conference on Environmental, Cultural, Economic and Social Sustainability*, January 10-12, Vancouver, Canada.
5. **Cheng, C.**, Brabec, E.A., Ryan, R.L., Warren, P.S. & Nicolson, C. (2012). Green infrastructure planning for climate change adaptation: Integrate social vulnerability flooding risk assessment for the Boston Metropolitan Area future scenarios. *The Association of Collegiate Schools of Planning (ACSP) 53rd Annual Conference*. November 1-3, Cincinnati, Ohio.
4. **Cheng, C.** (2012). Green infrastructure resilience planning for climate change: Stormwater BMPs and social vulnerability for climate-induced flooding risk assessment framework. *Proceedings of Association of European Schools of Planning (AESOP) Annual Congress*. July 11-15, Ankara, Turkey.
3. Brabec, E.A., **Cheng, C.** & Molnarova, K. (2012). The use of spatial and mixed methods in analyzing cultural landscapes. *Council of Educators in Landscape Architecture (CELA) Annual Conference*, March 28-31, University of Illinois at Urbana-Champaign, Illinois.
2. **Cheng, C.** & Randhir, T.O. (2010). A sustainability evaluation and dynamic modeling tool for landscape and urban planning policy scenarios. *5th Fábos Conference on Landscape and Greenway Planning*. July 8-11, Budapest, Hungary.
1. Brabec, E.A., Hamin, E.M. & **Cheng, C.** (2010). Local surface water policy under conditions of climate change. *Landscape Legacy: Landscape Architecture between Art and Science, a joint conference of the International Study Group on the Multiple Use of Lands (ISOMUL) and the Council of Educators in Landscape Architecture (CELA)*. May 12-14. Maastricht, Netherlands.

b) Oral Presentations, Non-Peer-Reviewed

7. **Cheng, C.**, Yatabe, N., & Colwell, A. (2021). Co-Design the processes and outcomes with communities: A case for ASU Orange Mall green infrastructure project. *Sustaining Social Embeddedness Session in Social Embeddedness Network Conference, Arizona State University*. March 25. virtual.
6. Vanos, J., Hess, A., **Cheng, C.**, Coseo, P., Zuiker, S., Coats, C., & Ross, A. (2021). Reimagining Outdoor Play & Learning Environments. *Sustaining Social Embeddedness Session in Social Embeddedness Network Conference, Arizona State University*. March 25. virtual.
5. **Cheng, C.** (2020). Decolonize design in community engagement process. *Sustaining Social Embeddedness Session in Social Embeddedness Network Conference, Arizona State University*. March 24. virtual.
4. **Cheng, C.** (2019). Process matters more than products! Engaging Communities in Green Infrastructure Design: Tools and Practice. *Stormwater Quality BMPs Workshops, City and County of Honolulu and Hawaii Water Environment Association (HWEA), Hawaii Convention Center, July 24-26, Honolulu, Hawai'i*.
3. Guswa, A.J., Hall, B., **Cheng, C.** & Thompson, J. (2018). Stakeholder-designed scenarios to investigate the effect of land use on water partitioning and high flows in New England. *Research Coordination Network: Scenarios, Services, and Society Meeting*. November 14. Amherst, MA.
2. **Cheng, C.** (2015). Transdisciplinary planning and cultural landscape preservation: A case for Gullah community in St. Helena Island, SC. *Symposium on Culture Identity and Spatial Implementations*. National Quemoy University, January 6, Kinmen, Taiwan.
1. **Cheng, C.** & Brabec, E.A. (2010). An overview of climate change impact on water resources and infrastructure planning in urban regions. *7th Annual Massachusetts Water Resources Conference*. Water Resources Research Center, April 8. University of Massachusetts Amherst, Amherst, Massachusetts.

c) Poster Presentations, Peer-Reviewed

4. Trakas, A.*, Ferguson, E.*, Scholfield, K.*, & **Cheng, C.** (2020). Ready! SET! Activate! Using green infrastructure to promote health equity in South Phoenix. *Environmental Design Research Association (EDRA) 51st Annual Conference*. April 4-7. Tempe, Arizona.
3. Ma, T., Yang, Y.C.-E., **Cheng, C.**, & Tsai, J.-Y. (2018). Evaluate the influence of green infrastructure with agent-based model in upper Huron River watershed. *American Geophysical Union Fall Meeting*. December 10-14, Washington, D. C.
2. Guswa, A.J., Hall, B., **Cheng, C.**, & Thompson, J. (2018). Stakeholder-designed scenarios to investigate the effect of land use on water partitioning and high flows in New England. *American Geophysical Union Fall Meeting*. December 10-14, Washington, D. C.
1. **Cheng, C.**, Yang, Y. & Brabec, E.A. (2012). Applying stormwater BMPs to climate-induced long-term flooding risk assessment: A case in the Charles River watershed, Massachusetts. *The Association of Collegiate Schools of Planning (ACSP) 53rd Annual Conference*. November 1-3, Cincinnati, Ohio.

d) Poster Presentations, Non-Peer-Reviewed

8. Trakas, A.*, Coseo, P. & **Cheng, C.** (2021). Where the Water Flows: Plant Community Profiles in Natural Desert Xeroriparian Environments. *CAP LTER All Scientists Meeting*. May 7. Virtual.
7. **Cheng, C.**, Trakas, A.*, Coseo, P., & Kelley, K. (2020). Designing green infrastructure for a desert city: Design experiment of hydro-ecological performance evaluation for bioretention details at Flood Control District of Maricopa County, Phoenix, Arizona. *CAP LTER All Scientists Meeting*. January 17, Scottsdale, Arizona.

6. Vanos, J. K., **Cheng, C.**, Cloutier, S., Coseo, P., Grant, B., Hess, A., Ross, A., & Labato, J. (2020). Microscale urban adaptations to mitigate heat and air pollution exposures and improve children's health: An overview. *CAP LTER All Scientists Meeting*. January 17, Scottsdale, Arizona.
5. AlKhaled, S.* , Coseo, P., Brazel, A., **Cheng, C.**, & Middel, A. (2019). Predictors of urban induced heating under the full evolution of the diurnal cycle. *2nd Annual Urban Climate Research Center*, Arizona State University. March 27. Tempe, Arizona. **Received 2nd Place in the Graduate Student Category.**
4. Garshasby, M.* , **Cheng, C.**, & Coseo, P. (2019). Thermal comfort in outdoor environment: Assessing the impact of psychological adaptation factors in the experience of heat. *Urban Climate Research Center*, March 27, Arizona State University, Tempe, Arizona.
3. Sanchez, C.* , **Cheng, C.**, Childers, D. L., & York, A. (2019). Designing and implementing ecological monitoring of Urban Ecological Infrastructure (UEI): A case-study. *CAP LTER All Scientists Meeting*. January 4, Scottsdale, Arizona.
2. Sanchez, C.* , Coseo, P., & **Cheng, C.** (2018). Understanding co-production in urban ecological design: Design processes to support designed experiments. *CAP LTER All Scientists Meeting*. January 5, Scottsdale, Arizona.
1. Lee, J.* & **Cheng, C.** (2017). Land use patterns, water quality, and social vulnerability: A spatial analysis of Phoenix's drainage systems. *CAP LTER All Scientists Meeting*. January 13, Scottsdale, Arizona.

M. ACADEMIC TEACHING & ADVISING

Arizona State University

a) **Courses taught** (*newly developed solely **co-developed with other faculty)

EPD	799	Dissertation
EPD	792	Research
EPD	780	Practicum
EPD	690	Reading and Conference
LDE	621	Advanced Landscape Architecture Design Studio III*
LPH	598	Sustainable Urban Water Systems*
LAP	592	Collaborative Project **
LDE	521	Advanced Landscape Architecture Design Studio I*
MUD	590	Advanced Urban Design Studio I*
LAP	492/493	Honors Thesis
LDE	462	Landscape Architecture Design Studio IV*
LPH	411	Landscape Architecture Theory/Criticism*
EDS	301	Sustainable Community Design and Practices*
ALA	102	Landscapes and Sustainability**

b) **Students Award and Recognition**

- 2020 **Honor Award** Student Community Service, Arizona Chapter-American Society of Landscape Architects (AzASLA). Elizabeth Ferguson, Amanda Trakas, & Kevin Scholfield (MLA), *Ready! SET! Activate! Using Green Infrastructure to Promote Health Equity in South Phoenix* derived from LDE521 Fall 2019 studio instructed by C. Cheng
- 2020 **Second Place** Demonstration Project Category, U.S. Environmental Protection Agency (EPA) eighth annual Campus RainWorks Challenge. Amanda Trakas, Elizabeth Ferguson, & Kevin Scholfield (MLA), *Ready! Set! Activate!* (video: <https://youtu.be/jp1Wm9otTsQ>) The competition

submission was a part of a service-learning design studio LDE521 Fall 2019 studio instructed by C. Cheng working with Paideia Academies, a charter school in South Phoenix.

- 2019 **Second Place** in the Graduate Student Category in Urban Climate Research Center Posters Competition, ASU, March 27, Tempe, Arizona. Saud AlKhaled (PhD), *Predictors of Urban Induced Heating Under the Full Evolution of the Diurnal Cycle* derived from PhD dissertation that C. Cheng supervised as committee member
- 2018 **Third Place** in the Graduate Student Category in Urban Climate Research Center Posters Competition, ASU, April 3, Tempe, Arizona. Saud AlKhaled (PhD), *Between Aspiration and Actuality: A Systematic Review of Urban Heat Mitigation Strategies in Hot Urban Deserts* derived from PhD dissertation that C. Cheng supervised as committee member
- 2017 **Award of Excellence** Hawai'i Chapter-ASLA & **First Prize** in Make the Ala Wai Awesome International Design Competition. *Water is Life* derived from studios instructed by C. Cheng (LDE 521&LPH 590 Fall 2016) and P. Coseo & D. Petrucci (LDE522&LPH591 Spring 2017)
The competition submission was a part of a year-long service-learning design studio working with Hawai'i Green Growth. Team members were Master of Landscape Architecture, Master of Urban Design and Doctoral School of Sustainability students: Kristin Antkoviak (MLA), Olga Bracamontes (MUD), Leah Gibbons (SOS), Nicholas Knoebel (MLA), Chunpeng Li (MUD), Catherine Ruggiero (MLA), Nicholas Weller (SOS) and Chandler Willie (MUD).
- 2016 **Honor Award** Arizona Chapter-ASLA. Paula Wheeler (MLA), *Cady Mall* derived from LDE521 Fall 2015 studio instructed by C. Cheng

c) Doctoral Dissertation Committee

The Design School, Doctor in Design, Environment, and the Arts Program

7. **Chair.** Yilei Yu (2020-present)
6. **Chair.** Marzieh Rezaei (2020-present)
5. **Co-Chair.** Tarane Dervish (2017-present)
4. **Chair.** Brian Rojas (2017-2020)
3. **Chair.** Joomee Lee (2016-2020)
2. **Member.** Mohsen Garshasby (2016-2020)
1. **Member.** Saud AlKhaled (2017-2019)

d) Thesis/Applied Project Committee

The Design School

4. **Member.** Hart Larew (2019). Master of Science in Design
3. **Member.** Kristin Antkoviak (2018). Master of Landscape Architecture
2. **Member.** Shufan Feng (2016). Master of Landscape Architecture
1. **Member.** Afrida Hoque (2016). Master of Architecture

Barrett Honors College

2. **Chair.** Sarah Le (2020), Honors College, Sustainability major. *Sustainability Disclosures as a Financial Asset and Tool for Brand Management*
1. **Chair.** Kara Davis (2019), Honors College, Sustainability major. *The impact of outdoor spaces on student happiness: A case study of the Arizona State University Tempe campus*

Other Schools

2. **Chair.** Collin Phillips (2020). In fulfillment of the required directed study for the Bachelor of Science in Interdisciplinary Studies, Urban Planning & Sustainability concentration. College of Integrative Sciences and Arts. *Green Building in the American West: Impacts and Effectiveness*
1. **Member.** Christopher Sanchez (2019). In fulfillment of the requirement for the Master of Science in Sustainability degree in School of Sustainability. *Designing and implementing*

ecological monitoring of aridland Urban Ecological Infrastructure (UEI): A case-study of design process and outcomes

e) Independent Research

Barrett Honors Contract, Undergraduate Program

4. **Advisor.** Kaitlyn Alvarez (2018 Fall)
1. **Advisor.** Erin Azuma (2018 Fall)
2. **Advisor.** Ally Shott (2018 Spring). "Urban forestry and its benefits for mitigating Phoenix urban heat." Herberger Institute for Design and the Arts, Environmental Design/Sustainability (Minor)
1. **Advisor.** Daniella Simari (2017 Spring). "Landscape planting design guidelines for Oak Street Improvement Project in Phoenix." Freshman, Mary Lou Fulton Teacher's College

Internship Program

3. **Advisor.** Jun Jiang (2018 Fall). Hydro-GI Lab. MLA graduate.
2. **Advisor.** Tiantian Li (2016 Summer). "Evaluating green infrastructure performance in Phoenix using SWMM." PhD student in Soil and Water Sciences, University of Florida
1. **Advisor.** Henrique Roche (2016 Summer). "Green Infrastructure Case Studies." Senior, Architecture and Urban Planning, Universidade of Sao Paulo, Brazil. Institute of International Education Intern

f) Funded Research

15. **Advisor.** Emily Singer (2020 Summer). ASLA EJ PPN "A Practitioner's Guide to Environmental Justice." Funded by ASLA
14. **Advisor.** Amanda Trakas, MLA candidate (2020 Summer). Hydro-GI Lab. Funded by CAP LTER Graduate Grants, ASU
13. **Advisor.** Kerrala Chandran, BS in Sustainability (2020 Summer). Hydro-GI Lab. Funded by CAP LTER Research Experience for Undergraduates (REU), ASU
12. **Co-advisor.** Elizabeth Ferguson, MLA candidate (2020 Summer). Paideia Academy campus redesign. Funded by Healthy Urban Environments (HUE), ASU
11. **Advisor.** Amanda Trakas, MLA candidate (2020 Spring-Summer). Hydro-GI Lab Orange Mall Green Infrastructure Landscape Performance. Funded by Landscape Architecture Foundation
10. **Advisor.** Amanda Trakas, MLA candidate (2019 Spring-Fall). Hydro-GI Lab Orange Mall Green Infrastructure Landscape Performance. Funded by HIDA, ASU
9. **Advisor.** Joomee Lee, PhD candidate (2018 Fall). Hydro-GI Lab. Funded by UWIN and HIDA, ASU.
8. **Advisor.** Mark Johnson, MLA candidate (2018 Spring-Summer). Hydro-GI Lab. Funded by HIDA, ASU.
7. **Advisor.** Mohsen Garshasby, PhD candidate (2018 Fall-2019 Fall). Thermal comfort research. Funded by HIDA, ASU.
6. **Co-advisor.** Liangzheng Mu, MS GIS graduate (2018 Fall). Climate justicescape and risk perception research. Funded by Dr. J-Y Tsai, Northern Arizona University.
5. **Advisor.** Wan-Hua Cheng, MS GIS candidate (2016 Fall). Climate justicescape research. Funded by HIDA.
4. **Advisor.** Mohsen Garshasby, PhD student (2016 Spring). Resilient community research. Funded by HIDA, ASU.
3. **Advisor.** Timothy Bishop, MS GIS candidate (2016 Spring). Resilient community research. Funded by HIDA, ASU.
2. **Advisor.** Liangzheng Mu, MS GIS candidate (2016 Spring). Resilient community research. Funded by HIDA, ASU.

1. **Advisor.** Bill Terrance, Master of Public Policy candidate (2016 Spring). Resilient community research. Funded by TDS, ASU.

N. COMMUNITY SERVICE-LEARNING & PARTICIPATORY ACTION RESEARCH

- 2021 S Instructor. Senior Landscape Architecture studio project: Sustainable Water Campus Design and Landscape Performance, Flood Control District of Maricopa County, Arizona.
- 2020 S Instructor. Senior Landscape Architecture studio working with Central Park community in Phoenix, Arizona, to co-redesign a neighborhood park and green infrastructure system.
- 2019 F Instructor. Graduate Landscape Architecture and Urban Design studio working with Paideia Academies of South Phoenix, Arizona, to co-redesign the schoolyard with design workshops and won the second place for demonstration category in EPA Campus RainWorks Challenge.
- 2018 F Instructor. Graduate Landscape Architecture studio joint with PhD in Design students in a one-year long collaborative service-learning project with Hawai'i Green Growth in Honolulu, Hawai'i. Special collaboration with Faculty and PhD Candidate in Sustainability at Arizona State University.
- 2018 S Instructor. Senior Landscape Architecture studio service-learning project with The Rio Reimagined working in South Phoenix, Arizona.
- 2017 F Instructor. Graduate Landscape Architecture and Urban Design studio joint with PhD and Master's in Sustainability students in collaborative service-learning project with White Tank Mountains Conservancy, Arizona.
- 2017 S Instructor. Senior Landscape Architecture studio service-learning project with Flood Control District of Maricopa County, Arizona.
- 2016 F Instructor. Graduate Landscape Architecture and Urban Design studio joint with PhD in Sustainability students in collaborative service-learning project with Hawai'i Green Growth, Hawai'i.
- 2016 S Instructor. Senior Landscape Architecture studio service-learning project with Town of Kearny, Arizona.
- 2011 S Instructor. Graduate Landscape Architecture studio service-learning project with Town of Braintree, Massachusetts.

O. SERVICE: ACADEMIC ACTIVITIES

a) Editorial Services

- 2021- **Co-Editor**, Special Issue in *Frontiers in Water*
- 2018- **Co-Editor**, Landscape Planning and Ecology Track, Landscape Research Records, Council of Educators in Landscape Architecture (CELA)
- 2020-21 **Session Chair Editor**, *The Routledge Handbook of Sustainable Cities and Landscapes*
- 2020 **Chair**, Editorial Board for EDRA 51 Conference Proceedings

a) Grant Proposal Reviews

- 2021 ASU Limited Submission for National Endowments for the Arts grants for arts projects
- 2021 NSF Smart and Connected Communities Program
- 2018 NOAA 2018 Environmental Literacy Grants: *Building the Environmental Literacy of K-12 Students and the Public for Community Resilience*
- 2017 The Mississippi-Alabama Sea Grant Consortium

b) Journal Manuscript Reviews

- 2021- International Journal of Disaster Risk Reduction [ISSN: 2212-4209, Elsevier]
- 2021- Frontiers in Ecology and the Environment [ISSN: 1540-9295 (print); 1540-9309 (web)]
- 2021- Atmosphere [ISSN: 2073-4433, MDPI]
- 2015-21 Landscape and Urban Planning [ISSN: 0169-2046, Elsevier]
- 2015-21 Landscape Research Record [Council of Educators in Landscape Architecture]
- 2017-21 Environment, Development and Sustainability [ISSN: 1573-2975, Springer]
- 2015-20 Sustainability [ISSN 2071-1050, MDPI]
- 2016-20 Urban Forestry & Urban Greening [ISSN: 1618-8667, Elsevier]
- 2020 The Professional Geographer [ISSN: 0033-0124 Online ISSN: 1467-9272, Taylor & Francis]
- 2020 Landscape and Ecological Engineering [SSN: 1860-1871, Springer]
- 2019 Geosciences [ISSN 2076-3263; CODEN: GBSEDA, MDPI]
- 2017-18 Ecology & Society [ISSN: 1708-3087]
- 2017-18 Landscape Research [ISSN: 1469-9710, Taylor & Francis] records:
<https://www.tandfonline.com/doi/pdf/10.1080/01426397.2018.1529449>
- 2018 Landscape Journal [ISSN: 0277-2426]
- 2018 Land [ISSN: 2073-445X, MDPI]
- 2017 Environments [ISSN: 2076-3298, MDPI]
- 2017 Climate [ISSN 2225-1154, MDPI]

c) Conference Proceedings/Abstract Reviews

- 2012- Council of Educators in Landscape Architecture (CELA) Annual Conference: Design Implementation, Landscape Performance, Research Methods
- 2011-20 Environmental Design Research Association (EDRA) Annual Conference

d) Book Reviews

- 2020 Book proposal review, Taylor and Francis Publishing
- 2019 Book proposal review, Routledge Publishing
- 2015 Book manuscript review, Fairchild Books Bloomsbury Publishing

e) Technical Report Reviews

- 2019 *Green Infrastructure/Low Impact Development Handbook*. City of Scottsdale, Arizona
- 2014 *Who's in Danger? Race, Poverty, and Chemical Disasters*. Environmental Justice and Health Alliance for Chemical Policy Reform. Published in May 2014

f) Invited Design Reviews

- 2021 **External Reviewer**. LA4020 Adaptive design research studio, Landscape Architecture Program, Cornell University. May 6. Virtual.
- 2020 **External Reviewer**. Capstone projects final review, Master in Landscape Architecture Program, University of Washington. May 22. Virtual.
- 2020 **External Reviewer**. Mid-review in the sophomore design studio, Environmental Design Program, University of California Berkeley. April 29. Virtual.
- 2020 **External Reviewer**. Final review for the four-year design studio, Architecture Program, Mississippi State University. April 22. Virtual.
- 2019 **External Reviewer**. Final Review for the second year design course, Landscape Architecture Program, National Chung-Hsin University, Taichung, Taiwan.
- 2017 **External Reviewer**. Final Review, multiple courses in the Landscape Architecture Program at the University of Arkansas, Fayetteville, Arkansas. May 3.
- 2015 **External Reviewer**. Applied Landscape Ecology (interdisciplinary undergraduate class) Department of Environmental and Cultural Resources, National Hinchu University of Education, Hsinchu, Taiwan.

- 2014 **Reviewer.** Annual Portfolio Review Day (2nd and 3rd year MLA students), invited by the Department of Landscape Architecture, University of Michigan, Ann Arbor, MI. March 13.
- 2013 **Reviewer.** Department of Landscape Architecture, University of Michigan, Ann Arbor, MI.
- NRE 691 Ecological Planting Design Studio (2nd and 3rd year MLA program)
 - NRE 587: Watershed Design Studio (1st year MLA program)

P. SERVICE: PROFESSIONAL

a) International

- 2021- **Steering Committee Member**, Association of Pacific Rim University (APRU) Sustainable Cities and Landscapes (SCL) Hub
- 2020-2021 **Chair and Instructor**, Module 4 Urban Resilience, Asia-Pacific Mayors Academy (<https://www.asiapacificmayorsacademy.org/>)
- 2019-2021 **Chair**, Vulnerable Community Working Group in the Association of Pacific Rim University (APRU) Sustainable Cities and Landscapes (SCL) research and conference hub, helped organizing and leading the group discussion in the annual conference and subsequent publication in a handbook to be published by Routledge.
- 2019-20 **Chair-Elect**, Environmental Design Research Association (EDRA) Board of Directors
- 2019-20 **Chair**, EDRA 51 Conference Committee, *EDRA 51 Transform: Socially Embedded Collaboration*, April 4-7, 2020, Tempe, Arizona (first virtual conference)
- 2018-19 **Secretary and Interim Treasurer**, EDRA Executive Board of Directors
- 2017-18 **Interim Secretary**, EDRA Executive Board of Directors

b) National (serving international members)

- 2021- **Chair** of Southwest and South Plain Regional Events Working Group and **Member** of Climate Actions Advocacy Working Group in Climate Actions Committee, American Society of Landscape Architects (ASLA)
- 2019- **Member**, Association of Collegiate Schools of Planning (ACSP) Institutional Governance Committee
- 2021- **Leadership Team Member**, ASLA Environmental Justice Professional Practice Network (EJ PPN)
- 2018- **Co-Chair**, Council of Educators in Landscape Architecture (CELA) Landscape Planning and Ecology Track
- 2018-20 **Co-Chair**, ASLA EJ PPN
- 2017-18 **Leadership Team Member**, Communications Officer, ASLA EJ PPN

c) Regional/State-wide

- 2021- **Member**, Diversity, Equity and Inclusions Committee, Arizona Chapter American Society of Landscape Architects (AzASLA)
- 2016- **Member**, Green Infrastructure Task Force, Sustainable Cities Network in Phoenix Metro Area organized by ASU Global Institute of Sustainability
- 2007-08 **Policy advisory committee member.** City of Tampa Green Building Ordinance Task Force for City Councilman John Dingfelder
- 2006-08 **Member.** *ASLA-FL Sustainable Environment Committee*
- 2007 Apr **Charrette Table Leader.** Infrastructure in *Visions of Smart Growth and Sustainability: Florida Chapter ASLA Charrette to Illustrate Tools for Better Urban Growth and Environmental Stewardship*. Orlando, FL. (resulted in an ASLA publication)

- 2005-06 **Executive committee/Founding board member & Secretary/Treasurer.** *Congress for the New Urbanism-Illinois Chapter (CNU-IL)*
- 2005 Oct **Co-Organizer.** *First Annual CNU-IL Conference.* Chicago, IL.
- 2004-06 **Member.** *ILASLA International Practice & Education Committee*
- 2006 May **Guide.** *Chicago Great Places and Spaces.* City of Chicago and ILASLA, Chicago, IL
- 2005 Apr **Organizer & Moderator.** *Landscape Architecture in New Urbanism Symposium.* CNU-IL and ILASLA, Chicago, IL
- 2004 Apr **Organizer & Moderator.** *Landscape Architecture 101symposium.* ILASLA, Chicago, IL
- 2004-05 **Member.** *Chicago Wilderness Sustainability Team*

d) Internal

Arizona State University (ASU)

- 2019-2020 **Member.** Human Factors Committee for Global Futures Laboratory. The committee help guide the direction for research collaboration on humanity, social science, technology, and design across the university.
- 2019-2020 **Principal Investigator.** Conducted monitoring and assisted University Architect for acquiring Orange Mall SITES certification; coordinated with University Sustainability Office and CAP LTER for seeking future funding and long-term monitoring and research efforts on sustainable campus initiatives
- 2016-2020 Lead one activity in ASU Open Door annually
- 2018 **Co-organizer.** Rio Reimagined: ASU Design Studios and Projects Spring 2018. The Design School, Arizona State University. May 2, 2018. Tempe, Arizona.

Herberger Institute for Design and the Arts (HIDA)

- 2021 **Chair.** Host 'Justice Design' workshop on **HIDA Day** annual event
- 2017-18 **Chair.** Host 'Equity in Design' workshop on **HIDA Day** annual event
- 2017 **Member.** HIDA Diversity Equity and Inclusion Group

The Design School (TDS)

- 2020- **Member.** Design Justice Initiatives, a student-led committee
- 2021 **Member.** Advisory Committee for Director Search
- 2019-20 **Member.** Equity, Diversity, and Inclusion Committee
- 2018-19 **Member.** ReDesign Executive Committee
- 2018-19 **Member.** ReDesign Research Council Committee
- 2018 **Member.** Associate Director Search Committee
- 2018 **Member.** Urban Design Ad Hoc Committee
- 2018 **Member.** Architecture Faculty Search Committee
- 2016-19 **Member.** Executive Committee
- 2016-17 **Member.** Standards Committee
- 2016-17 **Member.** Lecture Series Committee

Landscape Architecture Program (LA)

- 2020-21 Assisted Program Head in attending leadership meetings, preparing meeting minutes, coordinating curriculum development, reviewing program prospect applications, supporting recruitment activities
- 2019-20 Assisted with LA Program in preparing faculty meeting minutes, coordinating curriculum development, reviewing program prospect applications, supporting program activities
- 2019 Participated in reviewing LA accreditation documents for minor edits, coordination of curriculum development, reviewing program prospect applications
- 2015-16 Assisted in reviewing and editing program curriculum

Q. MEDIA MENTIONS

- 2021 New partnership between ASU and SRP addresses climate change
<https://www.statepress.com/article/2021/04/spbiztech-srp-asu-partnership-addresses-climate-change-through-community-solutions>
- 2020 AzASLA Educator Award recipient mentioned in the 2020 Yearbook/Economic Forecast, Landscape Architect and Specifier News magazine (p41). <https://lsc-pagepro.mydigitalpublication.com/publication/?m=61306&i=685842&p=40>
- 2020 ASUNOW: Sun Devils well represented in state awards for landscape architecture profession
<https://asunow.asu.edu/20201005-sun-devils-well-represented-state-awards-landscape-architecture-profession>
- 2020 LAF Webinar: Findings & Insights from LAF's 2020 CSI Program
<https://www.lafoundation.org/resources/2020/07/2020-csi-finale-webinar>
ASLA The Field: Measuring Performance: Findings and Insights from LAF's 2020 CSI Program
<https://thefield.asla.org/2020/08/04/measuring-performance-findings-and-insights-from-lafs-2020-csi-program>
- 2020 ASU NEWS: ASU team wins EPA award for project with Phoenix charter school
<https://asunow.asu.edu/20200528-asu-team-wins-epa-award-project-phoenix-charter-school>
<https://herbergerinstitute.asu.edu/news/asu-team-wins-epa-award-project-phoenix-charter-school>
<https://sustainability.asu.edu/dcdc/news/archive/cheng-team-win-epa-award-for-green-infrastructure-project/>
- 2020 News Releases from Region 09: EPA Recognizes University of Arizona and Arizona State University, Winners of Annual Campus RainWorks Challenge
<https://www.epa.gov/newsreleases/epa-recognizes-university-arizona-and-arizona-state-university-winners-annual-campus>
EPA 2019 Campus RainWorks Challenge Results
<https://www.epa.gov/green-infrastructure/2019-campus-rainworks-challenge-results>
- 2020 Landscape Architecture Foundation Case Study Investigation awarded teams and projects announcement <https://www.lafoundation.org/news/2019/12/2020-csi-teams>
- 2020 ASU team works to limit negative effects of stormwater runoff: ASU's Hydro-GI Lab has implemented water harvesting basins on three campuses and continues to collect data.
<https://www.statepress.com/article/2020/01/spbiztech-asu-research-team-is-working-to-limit-negative-effects-of-stormwater-runoff>
- 2020 ASU Social Embeddedness Network e-Newsletter: January 2020, Collaboratory highlight of the month, Hydro-GI Lab <https://he.cecollaboratory.com/arizonastate/activities/03a18789-db98-4cf9-40d0-455880588d25#information>
- 2019 PPN Live in San Diego: Professional Practice Network Events Recap
<https://thefield.asla.org/2019/11/21/ppn-live-in-san-diego-professional-practice-network-events-recap/>
- 2019 LAND: ASLA EJ PPN highlights <https://www.asla.org/land/LandArticle.aspx?id=56098>
- 2019 ASU NEWS: Designing for community and sustainability <https://news.asu.edu/20190624-designing-community-and-sustainability>
- 2019 Images produced from the Hawai'i Studio 2018-2019 were being showcased (the project was collaborated with the Hawai'i Blue Zones Project) <https://www.khon2.com/news/local-news/planning-begins-to-improve-old-stadium-park/2059677647>
- 2018 Invited Panel Discussion hosted by Defend Our Future on *Defend our Science Arizona*, April 5
<http://defendourfuture.org/event/defend-our-science-arizona/>
- 2017 Flood Control District of Maricopa County Durango Campus Master Plan
<https://www.maricopa.gov/DocumentCenter/View/37161/2017-0712-Master-Plan-Report-Rev>
- 2017 Interview with *The State Press* <http://www.statepress.com/article/2017/10/vice-article-claims-climate-change-will-make-phoenix-unlivable-by-2050>
- 2017 Students from the resource 'island' of Phoenix enlisted to help create strategy.
<http://togetherformai.org/2017/06/30/article-asu-design-school-reimagines-more-sustainable-hawaii/>

- 2017 ASU Sustainability News: *ASU-Hawai'i Green Growth collaboration receives top awards at 'Make the Ala Wai Awesome' design competition* <https://sustainability.asu.edu/news/archive/asu-hawaii-green-growth-collaboration-receives-top-awards-make-ala-wai-awesome-design-competition/>
- 2017 Hawaii News Now: *UH announces winning designs of 'Make the Ala Wai Awesome' challenge* <http://www.hawaiinewsnow.com/story/35692193/uh-announces-winning-designs-of-make-the-ala-wai-awesome-challenge> cross linked by Hukilike No Maui: <http://togetherformai.org/2017/06/30/article-asu-design-school-reimagines-more-sustainable-hawaii/>
- 2017 ASUNOW: *Chingwen Cheng Centennial Professorship Award* <https://asunow.asu.edu/20170516-chingwen-cheng>
- 2017 ASUNOW: *ASU's Design School reimagines a more sustainable Hawaii* <https://asunow.asu.edu/20170502-global-engagement-asu%E2%80%99s-design-school-reimagines-more-sustainable-hawaii>
- 2016 Interview with Massachusetts Water Resources Research Center. *Where are they now?* Water Resources Research Center <https://wrrc.umass.edu/where-are-they-now>
- 2016 The National Institute for Water Resources <http://niwr.info/media/profiles/chingwen-cheng>
- 2016 Copper Area News. *WNRCD Meets in Kearny*. <http://www.copperarea.com/pages/wnrcd-meets-in-kearny/>
- 2015 Interview with needsRADIO 《觀點會客室》因應氣候變遷，原來台灣做的與美國差不多!
Coping with Climate Change: Experiences from Taiwan and USA.
<https://www.youtube.com/watch?v=oZEJLJ1rkuk>
- 2012 Graduate Scholar Recipients <http://2012.onsustainability.com/graduate-scholar-recipients/index.html>
- 2011 WickedLocal Braintree. *UMass students preparing Monatiquot River study for Braintree*.
<http://braintree.wickedlocal.com/article/20110412/news/304129658> (same article
<http://braintree.wickedlocal.com/x675836352/UMass-students-preparing-Monatiquot-River-study-for-Braintree>) (link to technical report: <https://braintreema.gov/DocumentCenter/View/298/Monatiquot-River-Watershed-Plan-PDF?bidId=>)

R. MEMBERSHIPS

Inaugurated member by nomination

The Honor Society of Sigma Lambda Alpha

Current Individual Membership

American Society of Landscape Architects (ASLA)
Association of European Schools of Planning (AESOP)
International Association for Landscape Ecology (IALE)
American Association of Geographers (AAG)
Arizona Hydrological Society (AHS)

Current Institutional Associated Membership

Council of Educators in Landscape Architecture (CELA)
Environmental Design Research Association (EDRA)
Association of Collegiate Schools of Planning (ACSP)
U.S. Green Building Council (USGBC)
Arizona Forward

Past Individual Membership

American Geophysical Union (AGU)
American Planning Association (APA)
Society for Urban Ecology (SURE)
Urban Land Institute (ULI) Young Leaders Group

The Urban Charrette