

Diane E. Pataki
School of Sustainability
Arizona State University

Walton Center for Planetary Health
Tempe, AZ 85281
Email: diane.pataki@asu.edu

Appointments

2024-2023-	Chief Strategy Officer and Deputy CEO, Southwest Sustainability Innovation Engine co-Director, Sustainability Innovation Science & Technology Center, Arizona State University
2021-	Foundation Professor of Sustainability, Arizona State University
2021-2023	Director, School of Sustainability, Arizona State University
2019-2021	Associate Vice President for Research, University of Utah
2018-2019	Associate Dean for Research, College of Science, University of Utah
2016-2018	Associate Dean for Student Affairs, College of Science, University of Utah
2015-2021	Professor, School of Biological Sciences, University of Utah
2014-2015	Program Director, Ecosystem Science Cluster, Division of Environmental Biology, National Science Foundation
2012-2015	Associate Professor, Department of Biology, University of Utah
2012-2021	Adjunct faculty, Dept. of City & Metropolitan Planning, University of Utah
2012-2021	Adjunct faculty, Ecology Center and Dept. of Landscape Architecture & Environmental Planning, Utah State University
2007-2012	Associate Professor, Dept. of Earth System Science and Dept. of Ecology & Evolutionary Biology, University of California, Irvine
2010-2012	Founding Director, Center for Environmental Biology, School of Biological Sciences, University of California, Irvine
2010-2011	Vice Chair for Undergraduate Programs, Dept. of Earth System Science, University of California, Irvine
2004-2007	Assistant Professor, Dept. of Earth System Science and Dept. of Ecology & Evolutionary Biology, University of California, Irvine
2000-2004	Research Assistant Professor, Department of Biology, University of Utah
1999-2003	IGBP-GCTE Focus 1 Program Officer, University of Utah
1998-1999	Post-doctoral Research Associate, Desert Research Institute, Univ. of Nevada

Education

1998	Ph.D. Nicholas School of the Environment, Duke University, Durham, NC
1995	M.S. School of the Environment, Duke University, Durham, NC
1993	B.A. Barnard College, Columbia University, New York, NY

Professional Service and Awards

Honors, Fellowships, and Elected offices

2023	President's Award for Sustainability, Arizona State University
2022-2023	Fellow, Academy for Innovative Higher Education Leadership
2022-2024	Governing Board member, Ecological Society of America
2021-	Fellow, American Association for the Advancement of Science
2019-2020	Fulbright Global Scholar
2019-2022	Vice President for Science, Ecological Society of America
2019-	Fellow, Ecological Society of America

2019	Albert Shimmins International Fellow, University of Melbourne
2015-2016	Leopold Leadership Fellow, Stanford University
2008	James B. Macelwane Medalist, American Geophysical Union
2008-	Fellow, American Geophysical Union
1996	NASA Earth Science Fellow, Jet Propulsion Laboratory
1993	Lillian Berle Dare Prize in geography, Barnard College
1993	Grace Potter Rice Fellowship for graduate study, Barnard College

Editorial service

2019-2020	Editor-in-Chief search committee, <i>Ecological Applications</i>
2015-2022	Urban Ecology Chief Specialty Editor, <i>Frontiers in Ecology and Evolution</i> and <i>Frontiers in Sociology</i>
2005-2010	Subject Editor, <i>Global Change Biology</i>
2004-2011	Board of Advisors to the Editor, <i>New Phytologist</i>

Advisory boards and committee memberships

2023-2024	Founding Executive Committee, National Sustainability Society
2023	Chair, Helmholtz Institute Proposal Review Committee
2022-	Science Committee, Ecological Society of America
2021	Laboratory Advisory Committee, Pacific Northwest National Lab
2021	Chair, Leadership and Governance Committee, Ecological Society of America
2021-	Finance Committee, Ecological Society of America
2020-2021	Chair, AC-ERE subcommittee on Human Health and the Environment, National Science Foundation
2020-2021	Long-Term Ecological Research Network (LTER) decadal review committee, National Science Foundation
2020	Reviewer, Stories of the Nature of Cities fiction competition
2019-	Scientific Committee, PhilInBioMed, Institute for Philosophy in Biology and Medicine
2019-2022	Chair, Science Committee, Ecological Society of America
2018-2021	External Advisory Board, Boston University Graduate Program in Urban Biogeoscience & Environmental Health
2018-2022	Meetings Committee, Ecological Society of America
2018-	Advisory Committee for Environmental Research and Education (AC-ERE), National Science Foundation
2017-2022	Biological Sciences Advisory Committee (BIO AC), National Science Foundation
2017-2018	Steering Committee, Stories of the Nature of Cities fiction competition
2017-2019	Macelwane Medal selection committee, American Geophysical Union
2016-2017	College of Fellows Task Force, American Geophysical Union
2013-2015	Biogeosciences Fellows selection committee, American Geophysical Union
2012-2014	Urban Ecology Working Group, National Ecological Observatory Network
2012-2014	Water Science Software Institute Steering Committee
2012-2013	Sustained Land Imaging Program committee, National Research Council
2012	Chair, Joint SDSU-UCSB Doctoral Program in Geography Review Committee
2011-2012	Founding Director, Steele Burnand Anza Borrego Desert Research Center
2011-2017	Board of Scientific Counselors, U.S. Environmental Protection Agency
2010-2013	Science Committee, Ecological Society of America
2009-2010	Energy Sustainability subcommittee, U.S. Dept. of Energy, Biological and

	Environmental Research Strategic Planning Committee
2008	Board Member, Santa Ana College USDA Partnership for Transfer Success
2008	Site reviewer, NSF Baltimore Long-Term Ecological Research site
2008-2011	Carbon Cycle Scientific Steering Group, U.S. Climate Change Science Program
2008-2009	User working group, Carbon Dioxide Information Analysis Center (CDIAC)
2008-2011	Natural Reserve Systemwide Committee, University of California
2007-2009	Membership Committee, University Corporation for Atmospheric Research
2007	Lead Author, U.S. Climate Change Science Program Synthesis and Assessment Product 2.2, State of the Carbon Cycle Report, Chapter 14: Human Settlements
2006-2010	Ecohydrology Executive Committee, American Geophysical Union
2000-2010	Steering Committee, Biosphere-Atmosphere Stable Isotope Network (BASIN)
2000-2005	Steering Committee, Terrestrial Ecosystem Responses to Atmospheric and Climatic Change (TERACC) network

Conferences and Events

2023	Planning Committee, Inaugural meeting of the National Sustainability Society, Ann Arbor, Michigan.
2020	Local host chair, 105 th Ecological Society of America annual meeting, August 2020, Salt Lake City, UT.
2019	Steering committee, "The Nature of Cities Summit", Paris, France, June 4-6, 2019.
2017	Planning committee, Joint Ameriflux and North American Carbon Program Principal Investigators Meeting, March 2017, Washington, DC, USA.
2012	Co-organizer, "Ecological monitoring and research to support adaptive management of Orange County open space." January 27, 2012, Irvine, CA, USA.
2005	Co-organizer, "Non-steady state isotopic enrichment of leaf water" Dec. 4, 2005, San Francisco, CA.
2005	Steering committee, "Modeling ecosystem responses to global change: Techniques and recent advances" January 9-12, 2005, Fort Meyers FL, USA
2004	Co-organizer, "Oxygen isotopes as a tracer linking global O ₂ , CO ₂ , and H ₂ O cycles." September 19-22, 2004, Marshall, California, USA.
2004	Co-organizer, "Carbon Respiration from terrestrial ecosystems: Reducing uncertainties in the role played by respiration in the global carbon cycle." January 21-24, 2004, Laguna Beach, California, USA.
2003	Steering committee, "Interactions between increasing CO ₂ and temperature in terrestrial ecosystems." April 27-30, 2003, Lake Tahoe, California, USA.
2002	Co-organizer, "CO ₂ and water: The biosphere-atmosphere-hydrosphere loop driven by plant responses to CO ₂ enrichment." Aug. 17-20, 2002, Basel, Switzerland.
2002	Steering committee, "Biological controls on the stable isotope composition of atmospheric carbon dioxide, methane and nitrous oxide: processes and applications." May 12-14, 2002, Banff, Canada.
2002	Steering committee, "From transient to steady state responses of ecosystems to CO ₂ enrichment and global warming." April 28-May, 2002, Durham, NH, USA.
2001	Co-organizer, "Tracing carbon in elevated CO ₂ experiments: a workshop on isotopic analyses of where the carbon is going." Oct. 19-21, 2001, Durham, NC, USA
2001	Co-organizer, "Progressive nitrogen limitation of plant and ecosystem responses to elevated CO ₂ ." May 10-12, 2001, Santa Barbara, CA, USA.
2000	Steering committee, "FACE 2000 conference." June 25-30, 2000, Tsukuba, Japan.

Memberships

Ecological Society of America

American Geophysical Union

American Association for the Advancement of Science

Peer-reviewed Publications (lab members in bold)

146. **Litvak E, Pataki DE**. 2024. The influence of climate and management on transpiration of residential trees during a bark beetle infestation. In review.
145. **Wilfong M, Litvak E, Grijseels NH**, Hamilton K, Kucera D, Welsh L, Endter-Wada J, Jenerette GD, **Pataki DE**. 2024. Irrigation rates and turfgrass evapotranspiration in cities with contrasting water availability. In review.
144. Mejia GA, Groffman PM, Avolio ML, Bratt AR, Engebretson JM, **Grijseels N**, Hall SJ, Hobbie SE, Lerman SB, **Litvak E**, Locke EH, Narango DL, Cubino JP, **Pataki DE**, Trammell TLE. 2024. How do urban trees vary across the USA: It depends on where and how you look. *Frontiers in Ecology & the Environment*, In press.
143. Lobo J, Aggarwal RM, Alberti M, Allen-Dumas M, Bettencourt LMA, Boone C, Brelsford C, Broto VC, Eakin H, Bagchi-Sen S, Meerow S, D'Cruz CD, Revi A, Roberts DC, Smith ME, York A, Lin T, Bai X, Solecki W, **Pataki DE**, Tapia LT, Rockman M, Wolfram M, Schlosser P, Gauthier N. 2023. Integration of urban science and urban climate adaptation research: opportunities to advance climate action. *npj Urban Sustainability* 3(32), doi.org/10.1038/s42949-023-00113-0
142. **Grijseels NH, Litvak E**, Avolio ML, Bratt AR, Cavender-Bares J, Groffman PM, Hall SJ, Hobbie SE, Lerman SB, Morse JL, Narango DL, Neill C, O'Neil-Dunne J, Cubino JP, Trammell TLE, **Pataki DE**. 2023. Evapotranspiration of residential lawns across the United States. *Water Resources Research*, e2022WR032893.
141. Mitchell LE, Lin JC, Hutyra LR, Bowling DR, Cohen RC, Davis KJ, DiGangi E, Duren RM, Ehleringer JR, Fain C, Falk M, Guha A, Karion A, Keeling RF, Kim J, Miles NL, Miller CE, Newman S, **Pataki DE**, Prinzivalli S, Ren X, Rice A, Richardson SJ, Sargent M, Stephens BB, Turnbull JC, Verhulst KR, Vogel F, Weiss RF, Whetstone J, Wofsy SC. 2022. A multi-city urban atmospheric greenhouse gas measurement data synthesis. *Scientific Data* 9(1): 361
140. Esperon-Rodriguez M, Rymer PD, Power SA, Barton D, Cariñanos P, Dobbs C, Eleuterio AA, Escobedo RJ, Hauer R, Hermy M, Jahani A, Onyekwelu JC, Östberg J, **Pataki DE**, Randrup TB, Rasmussen T, Roman LA, Russo A, Shackleton C, Solfeld I, van Doorn NS, Wells MJ, Wiström B, Yan P, Yang J, Tjoelker MG. 2022. Assessing climate risk to support urban forests in a changing climate. *Plants, People, Planet* 4(3): 201-213.
139. **Cobley LAE, Pataki DE**, Adler FR, Hinnert SJ. 2021. Using traffic density and foliar chemistry variables to understand interactions between air pollution and household income. *Journal of Geophysical Research: Atmospheres* 126(23), e2021JD034942.
138. Lin BB, Ossola A, Alberti M, Andersson E, Bai X, Dobbs C, Elmqvist T, Evans KL, Frantzeskaki M, Fuller RA, Gaston KJ, Haase D, Jim CY, Konijnendijk C, Nagenda H, Niemälä J, McPhearson T, Moomaw WS, Parnell S, **Pataki DE**, Ripple WJ. 2021. Integrating solutions to adapt cities for climate change. *The Lancet Planetary Health* 5(7), e479-e486.
137. Avolio ML, Swan C, **Pataki DE**, Jenerette GD. 2021. Incorporating human behaviors into theories of urban community assembly and species coexistence. *Oikos* 130(11):1849-1864.

136. **Pataki DE**, Santana CG, Hinnners SJ, Felson AJ, Engebretson J. 2021. Ethical considerations of urban ecological design and planning experiments. *Plants, People, Planet* 3(6):737-746.
135. Shah J, Bares R, Bowen BB, Bowen GJ, Bowling DR, Eiriksson DP, Fasoli B, Fiorella RP, Hallar AG, Hinnners SJ, Horel JD, Jacques AA, Jamison LR, Lin JC, Mendoza DL, Mitchell LE, **Pataki DE**, Skiles SM, **Smith RM**, Wolf MA, Brooks PD. The Wasatch Environmental Observatory: A mountain to urban research network in the semi-arid Western U.S. 2021. *Hydrologic Processes* 35(9), e14352.
134. Blanchette A, Trammell TLE, **Pataki DE**, Endter-Wada J, Avolio ML. 2021. Plant biodiversity in residential yards is influenced by people's preferences for variety but limited by their income. *Landscape and Urban Planning* 214, 104149.
133. **Pataki DE**, Alberti M, Cadenasso ML, Felson AJ, McDonnell MJ, Pincetl S, Pouyat R, Setälä H, Whitlow. 2021. The benefits and limits of urban tree planting for environmental and human health. *Frontiers in Ecology and Evolution* 9, 603757.
132. Livesley SJ, Marchionni V, Cheung PK, Daly E, **Pataki DE**. 2021. Water smart cities increase irrigation to provide cool refuge in a climate crisis. *Earth's Future* 9(1), e2020EF001806.
131. **Gómez-Navarro C**, **Pataki DE**, Pardyjak ER, Bowling DR. 2021. Effects of vegetation on the spatial and temporal variation of microclimate in the urbanized Salt Lake Valley. *Agricultural and Forest Meteorology* 296, 108211.
130. **Grijseels NH**, Buchert PD, Brooks PD, **Pataki DE**. 2021. Using LiDAR to assess transitions in riparian vegetation structure along a rural to urban gradient. *Ecohydrology* 14(1), e2259.
129. Levia DF, Creed IF, Hannah DM, Nanko K, Boyer WE, Carlyle-Moses DE, van de Giesen N, Grasso D, Guswa AJ, Hudson JE, Hudson SA, Lida S, Jackson SB, Katul GG, Kumagai T, Llorens P, Ribeiro FL, **Pataki DE**, Peters CA, Sanchez Carretero D, Selker JS, Tetzlaff D, Zalewski M, Bruen M. 2020. Homogenization of the terrestrial water cycle. *Nature Geoscience* 13: 656-658.
128. Diffenbaugh NS, Field CB, Appel EA, Azevedo IL, Baldocchi DD, Burke M, Burney JA, Ciais P, David SJ, Fiore AM, Fletcher SM, Hertel TW, Horton DE, Hsiang SM, Jackson RB, Jin X, Levi M, Lobell DB, McKinley GA, Moore FC, Montgomery A, Nadeau KC, **Pataki DE**, Randerson JT, Reichstein M, Schnell JL, Seneviratne SI, Singh D, Steiner A, Wong-Parodi G. 2020. The COVID-19 lockdown: a window into the Earth System. *Nature Reviews Earth & Environment* 1: 470-481.
127. Engebretson JM, Nelson KC, Ogden LA, Larson KL, Grove JM, Hall SJ, Locke DH, **Pataki DE**, Chowdhury RR, Trammell TLE, Groffman PM. 2020. How the nonhuman world influences homeowner yard management in the American Residential Macrosystem. *Human Ecology* 48: 347-356.
126. Guswa AJ, Tetzlaff D, Selker JS, Carlyle-Moses DE, Boyer EW, Bruen M, Cayuela C, Creed IF, van de Giesen N, Grasso D, Hannah DM, Hudson JE, Hudson SA, Lida S, Jackson RB, Katul GG, Kumagai T, Llorens P, Ribeiro FL, Michaelzik B, Nanko K, Oster C, **Pataki DE**, Peters CA, Rinaldo A, Carretero DS, Trifunovic B, Zalewski M, Haagsma M, Levia DF. 2020. Advancing ecohydrology in the 21st century: A convergence of opportunities. *Ecohydrology* 13: e2208.
125. **Trammell TLE**, **Pataki DE**, Pouyat RV, Rosier C, **Avolio ML**, Bettez M, Cavender-Bares J, Groffman PM, Grove M, Hall S, Heffernan J, Hobbie SE, Larson KL, Morse JL, Neill C, Nelson KC, Ogden LA, O'Neil-Dunne J, Polsky C, Roy Chowdhury RR, Steele M, Wheeler MM. 2020. Urban soil carbon and nitrogen converge at a continental scale. *Ecological Monographs* 90(2): e01401.
124. **Avolio M**, **Pataki DE**, Jenerette GD, Pincetl S, Clarke LW, Cavender-Bares J, Gillespie TW, Larson KL, McCarthy HR, Trammell TLE. 2020. Urban plant diversity in Los Angeles, California: Species and functional type turnover in cultivated landscapes. *Plants People Planet* 2(2): 144-156.

123. Cubino JP, Avolio ML, Wheeler MM, Larson KL, Hobbie SE, Cavendar-Bares J, Hall SJ, Nelson KC, Trammell TLE, Neill C, **Pataki DE**, Grove JM, Groffman PM. 2020. Linking yard plant diversity to homeowners' landscaping priorities across the U.S. *Landscape and Urban Planning* 196: 103730.
122. **Pataki DE**. 2019. On the definition of cultivated ecology. *Philosophical Topics* 47(1): 181-201.
121. **Goméz-Navarro C**, **Pataki DE**, Bowen GJ, Oerter EJ. 2019. Spatiotemporal variability in water sources of urban soils and trees in the semiarid, irrigated Salt Lake Valley. *Ecohydrology* 12(8): e2154.
120. **Cobley LAE**, **Pataki DE**. 2019. Vehicle emissions and fertilizer impact the leaf chemistry of urban trees in Salt Lake Valley, UT. *Environmental Pollution* 254, doi.org/10.1016/j.envpol.2019.112984.
119. Cubino JP, Cavendar-Bares J, Hobbie SE, **Pataki DE**, Avolio ML, Darling LE, Larson KL, Hall SJ, Groffman PM, Trammell TLE, Steele MK, Grove JM, Neill C. 2019. Drivers of plant species richness and phylogenetic composition in urban yards at the continental scale. *Landscape Ecology* 34(1):63-77, doi.org/10.1007/s10980-018-0744-7.
118. **Trammell TLE**, **Pataki DE**, Still CJ, Ehleringer JR, Avolio ML, Bettez N, Cavender-Bares J, Groffman PM, Grove M, Hall SJ, Heffernan J, Hobbie SE, Larson KL, Morse JL, Neill C, Nelson KC, O'Neil-Dunne J, Pearse WD, Chowdhury RR, Steele M, Wheeler MM. 2019. Biophysical and social factors control C4 plant distribution in residential lawns across seven U.S. cities. *Ecological Applications* 29 (4): e01884, doi.org/10.1002/eap.1884.
117. Pincetl S, Gillespie TW, **Pataki DE**, Porse E, Jia S, Kidera E, Nobles N, Rodriguez J, **Choi D**. 2019. Evaluating the effects of the turf-replacement programs in Los Angeles. *Landscape and Urban Planning* 185: 210-221.
116. Pincetl S, Porse E, Mika KB, **Litvak E**, Manago KF, Hogue TS, Gillespie T, **Pataki DE**, Gold M. 2019. Adapting urban water systems to manage scarcity in the 21st century: The case of Los Angeles. *Environmental Management* 63(3): 293:308.
115. Eisenman TS, Churkina G, Jariwala SP, Kumar P, Lovasi GS, **Pataki DE**, Weinberger KR, Whitlow TH. 2019. Urban trees, air quality, and asthma: An interdisciplinary review. *Landscape and Urban Planning* 187: 47-59.
114. **Cobley LAE**, **Pataki DE**, McCarthy HR, Martin SA, Ehleringer JR. 2018. Housing age and affluence influence plant and soil nitrogen and carbon cycles in two semi-arid cities. *JGR Biogeosciences* 123(10): 3178-3192, doi/10.1029/2018JG004424
113. Lin JC, Mitchel L, Cros E, Mendoza D, Buchert M, Bares R, Fasoli B, Bowling DR, **Pataki DE**, Catharine D, Strong C, Gurney K, Patarasuk R, Baasandorj M, Jackques A, Hoch S, Horel J, Ehleringer JR. 2018. CO₂ and carbon emissions from cities: Linkages to air quality, socioeconomic activity and stakeholders in the Salt Lake City urban area. *Bulletin of the American Meteorological Society*, doi.org/10.1175/BAMS-D-17-0037.1
112. Ward EJ, Oren R, Kim HS, Kim D, Torngern P, Ewers PE, McCarthy HR, Oishi AC, **Pataki DE**, Palmroth S, Phillips NG, Schäfer KVR. 2018. Evapotranspiration and water yield of a pine-broadleaf forest are not altered by long-term atmospheric CO₂ enrichment under native or enhanced soil fertility. *Global Change Biology* 24(10):4841-4856.
111. **Smith RM**, Williamson JC, **Pataki DE**, Ehleringer JR, Dennison P. 2018. Soil carbon and nitrogen accumulation in residential lawns of the Salt Lake Valley, Utah. *Oecologia* 187(4): 1107-1118, doi.org/10.1007/s00442-018-4194-3.

110. Porse E, Mika KB, **Litvak E**, Manago KF, Hogue TS, Gold M, **Pataki DE**, Pincetl S. 2018. The economic value of local water supplies in Los Angeles. *Nature Sustainability* 1: 289-297.
109. Roman LA, Pearsall H, Eisenman TS, Conway TM, Fahey RT, Landry S, Vogt J, van Doorn NS, Grove JM, Locke DH, Bardekjian AC, Battles JJ, Cadenasso ML, van den Bosch CCK, Avolio ML, Berland A, Jenerette GC, Mincey SK, **Pataki DE**, Staudhammer C. 2018. Human and biophysical legacies shape contemporary urban forests: A literature synthesis. *Urban Forestry & Urban Greening* 31: 157-168.
108. Blaszcak JR, Steele MK, Badgley BD, Heffernan JB, Hobbie SE, Morse JL, Rivers EN, Hall SJ, Neill C, **Pataki DE**, Groffman PM, Bernhardt E. 2018. Sediment chemistry of urban stormwater ponds and controls on denitrification. *Ecosphere* 9(6): e01318.
107. Locke DH, **Avolio ML**, **Trammell TLE**, Chowdhury RR, Grove MJ, Rogan J, Martin DG, Bettez N, Cavendar-Bares J, Groffman PM, Hall SJ, Heffernan JB, Hobbie SE, Larson KL, Morse JL, Neill C, Ogden LA, O'Neil-Dunne JPM, **Pataki DE**, Pearse WD, Polsky C, Wheeler MM. 2018. A multi-city comparison of front and backyard differences in plant species diversity and nitrogen cycling in residential landscapes. *Landscape and Urban Planning* 178: 102-111.
106. Pearse WD, Bares-Cavender J, Hobbie SE, **Avolio ML**, Bettez N, Roy Chowdhury R, Darling LE, Groffman PM, Grove M, Hall SJ, Heffernan JB, Learned J, Neill C, Nelson KC, **Pataki DE**, Ruddell BL, Steele MK, **Trammell TLE**. 2018. Homogenization of plant diversity, composition, and structure in North American urban yards. *Ecosphere* 9(2):e02105.
105. Mitchell LE, Lin JC, Bowling DR, **Pataki DE**, Strong C, Schauer AJ, Bares R, Bush SE, Stephens BB, Mendoza D, Mallia D, Holland L, Gurney KR, Ehleringer JR. 2018. Long-term urban carbon dioxide observations reveal spatial and temporal dynamics related to urban characteristics and growth. *PNAS* 114(12):2912-2917.
104. **Avolio ML**, **Pataki DE**, **Trammell TLE**, Endter-Wada J. 2018. Biodiverse cities: The nursery industry, homeowners, and neighborhood differences drive urban tree composition. *Ecological Monographs* 88(2):259-276.
103. Raczka B, Biraud SC, Ehleringer JR, Lai C, Miller JB, **Pataki DE**, Saleska S, Torn MS, Vaughn BH, Wehr R, Bowling DR. 2017. Does vapor pressure deficit drive the seasonality of $\delta^{13}\text{C}$ of the net land-atmosphere CO_2 exchange across the United States? *JGR Biogeosciences* 122(8): 1969-1987, doi: 10.1002/2017JG003795.
102. Porse E, Kathryn MB, **Litvak E**, Manago K, Naik K, Glickfield M, Hogue TS, Gold M, **Pataki DE**, Pincetl S. 2017. Optimization of local water supply in Los Angeles: Urban water systems analysis with institutional complexity. *Journal of Water Resources Planning and Management* 143(9):04017049.
101. **Litvak E**, Manago KF, Hogue TS, **Pataki DE**. 2017. Evapotranspiration of urban landscapes in Los Angeles, California at the municipal scale. *Water Resources Research* 53 doi:10.1002/2016WR020254.
100. Groffman PM, Avolio M, Cavender-Bares J, Bettez ND, Grove JM, Hall SJ, Hobbie SE, Larson KL, Lerman SB, Locke DH, Heffernan JB, Morse JL, Neill C, Nelson KC, O'Neil-Dunne J, **Pataki DE**, Polsky C, Chowdhury RR, **Trammell TLE**. 2017. Ecological homogenization of residential macrosystems. *Nature Ecology and Evolution* 1, 0191 doi:10.1002/2017JG003795.
99. Wheeler MM, Neill C, Groffman PM, **Avolio M**, Bettez N, Cavender-Bares J, Chowdhury RR, Darling L, Grove JM, Hall SJ, Heffernan JB, Hobbie SE, Larson KL, Morse JL, Nelson KC, Ogden LA, O'Neil-Dunne J, **Pataki DE**, Polsky C, Steele M, Trammell TLE. 2017. Continental-scale homogenization of residential lawn communities. *Landscape and Urban Planning* 165: 54-63.

98. **Litvak E**, McCarthy HR, **Pataki DE**. 2017. A method for estimating transpiration of irrigated urban trees in California. *Landscape and Urban Planning* 158: 48-61.
97. Groffman PM, Cadenasso ML, Cavendar-Bares J, Childers DL, Grimm NB, Grove JM, Hobbie SE, Hutrya LR, Jenerette GD, McPhearson T, **Pataki DE**, Pickett STA, Pouyat RV, Rosi-Marshall E, Ruddell BL. 2017. Moving towards a new urban systems science. *Ecosystems* 20:38.
96. Gillespie TW, de Goede J, Aguilar L, Jenerette GD, Fricker GA, Avolio ML, Pincetl S, Johnston T, Clarke LW. **Pataki DE**. 2017. Predicting tree species richness in urban forests. *Urban Ecosystems* doi:10.1007/s11252-016-0633-2.
95. Jenerette GD, Clarke LW, Avolio ML, **Pataki DE**, Gillespie TW, Pincetl S, Nowak DJ, Hutrya LR, McHale M, McFadden JP, Alonzo M. 2016. Climate tolerances and trait choices shape continental patterns of urban tree biodiversity. *Global Ecology and Biogeography* 25(11):1367-1376.
94. **Litvak E**, **Pataki DE**. 2016. Evapotranspiration of urban lawns in a semi-arid environment: an in situ evaluation of microclimatic conditions and watering recommendations. *Journal of Arid Environments* 135: 87-96.
93. **Trammell TLE**, **Pataki DE**, Cavendar-Bares J, Groffman PM, Hall SJ, Heffernan JB, Hobbie SE, Morse JL, Neill C, Nelson KC. 2016. Plant N concentration and isotopic composition in residential lawns across seven U.S. cities. *Oecologia* 181(1):271-285.
92. Larson KL, Nelson KC, Samples SR, Hall SJ, Bettez N, Cavender-Bares J, Groffman PM, Grove M, Heffernan JB, Hobbie SE, Learned J, Morse JL, Neill C, Ogden LA, O'Neil-Dunne J, **Pataki DE**, Polsky C, Chowdhury RR, Steele M, **Trammell TLE**. 2016. Ecosystem services in managing residential landscapes: priorities, value dimensions, and cross-regional patterns. *Urban Ecosystems* 19: 95-113.
91. Groffman PM, Grove JM, Polsky C, Bettez ND, Morse JL, Cavendar-Bares J, Hall SJ, Heffernan JB, Hobbie SE, Larson KL, Neill C, Nelson K, Ogden L, O'Neil-Dunne, **Pataki DE**, Chowdhury R, Locke DH. 2016. Satisfaction, water and fertilizer use in the American residential macrosystem. *Environmental Research Letters* 11: 03004
90. Hall SJ, Learned J, Ruddell B, Larson KL, Cavender-Bares J, Bettez N, Groffman PM, Grover JM, Heffernan JB, Hobbie SE, Morse JL, Neill C, Nelson KC, O'Neil-Dunne JPM, Ogden L, **Pataki DE**, Pearse WD, Polsky C, Chowdhury RR, Steele MK, **Trammel TLE**. 2016. Convergence of microclimate in residential landscapes across diverse cities in the United States. *Landscape Ecology* 31: 101-117.
89. **Avolio ML**, **Pataki DE**, Gillespie TW, Jenerette GD, McCarthy HR, Pincetl S, Weller-Clarke L. 2015. Tree biodiversity in southern California's urban forest: The interacting roles of social and environmental variables. *Frontiers in Ecology and Evolution* 3, 00073.
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Other publications

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Conference and invited presentations

- Workshop on Intervening in Nature (invited), Catalina Island, May 2023
- School of Geographical Sciences and Urban Planning (invited), Arizona State University, April 2022
- The Nature of Cities Festival (invited), February 2021
- Google Lab (invited), October 2020
- Colorado State University (invited), October 2020
- Ecological Society of America meeting (invited), virtual conference, August 2020
- Cooling the City Masterclass (keynote), Penrith, Australia, February 2020
- Monash University (invited), Melbourne, Australia, January 2019
- University of Melbourne (invited), Parkville, Australia, December 2019
- Ecological Society of America meeting (keynote), Louisville, KY, August 2019
- The Nature of Cities Summit (keynote), Paris, France, June 2019
- University of Colorado (invited), Boulder, CO, April 2019
- Boston University (invited), Boston, MA, October 2018
- Ecological Society of America meeting (invited), New Orleans, LA, August 2018.
- American Geophysical Union meeting (invited), New Orleans, LA, December 2017
- Barnard College (invited), New York, NY, November 2017
- Smith College (invited), Northampton, MA, September, 2017
- Ecological Society of America meeting (invited), Portland, OR, August 2017
- Central Arizona Project Long-Term Ecological Research site All Hands Meeting (keynote), Arizona State University, January 2017
- 2nd International Conference on Urban Tree Diversity (keynote), Melbourne, Australia, Feb. 2016
- American Geophysical Union fall meeting (invited), San Francisco, CA, December 2015
- Smithsonian Environmental Research Center (invited), Edgewater, MD, November 2015
- Ecological Society of America meeting (invited), Baltimore, MD, August 2015
- Front Range Student Ecology Symposium (keynote), Fort Collins, CO, February 2015
- NSF Water Sustainability and Climate program meeting, Arlington, VA, February 2015
- Florida A&M University (invited), Tallahassee, FL, March 2014
- Arizona State University (invited), Tempe, AZ, February 2014
- National Science Foundation, Water Sustainability and Climate program meeting, Washington DC, January 2014
- American Geophysical Union fall meeting (invited), San Francisco, CA December 2013
- Yale University (invited), New Haven, CT, November 2013
- American Society of Landscape Architects meeting (invited) November 2013
- Ecological Society of America meeting (invited), Minneapolis, MN, August 2013
- "Ecosystem Services of Urban Forestry" workshop, National Academy of Sciences (invited), Washington, DC, February 2013
- American Geophysical Union fall meeting (invited), San Francisco, CA December 2012
- "Multidisciplinary water science: Linking social, physical, computational and ecological approaches to sustainable water resources", Utah State University (invited), April 2012
- American Geophysical Union fall meeting (invited), San Francisco, CA December 2011
- UK Royal Horticultural Society, John McLeod Annual Lecture (invited), London, November 2011
- Ecological Society of American meeting (invited), Austin, TX, August 2011
- Stanford University, Dept. of Environmental Earth System Science (invited), May 2011

- University of Utah, Global Change and Ecosystem Center (invited), April 2011
- UCLA, Institute of the Environmental and Sustainability (invited), February 2011
- American Geophysical Union fall meeting (invited), December 2010
- ACES conference: A Community of Ecosystem Services (invited), December 2010
- UCLA, Dept. of Ecology & Evol. Biology (invited), October 2010
- Ecological Society of America meeting (invited), Pittsburgh, PA, August 2010
- UC Irvine Discover the Physical Sciences Breakfast Lecture (invited), May 2010
- UCLA, Dept. of Geography (invited), April 2010
- MillionTreesNYC, Green Infrastructure, and Urban Ecology: A research symposium (invited), New York City, March 2010
- Atmospheric Sciences Symposium, UC Berkeley (keynote), February 2010
- American Geophysical Union fall meeting (invited), December 2009
- UC Irvine Allergan Lecture, October, 2009
- AGU Chapman Conference: Examining Ecohydrological Feedbacks of Landscape Change Along Elevation Gradients in Semiarid Regions (invited), Sun Valley, ID October, 2009
- National Science Foundation Environmental Research and Education (ERE) committee presentation (invited), September 2009
- Ecological Society of America meeting (Recent advances keynote address), Albuquerque, NM, August 2009
- Ecological Society of America Congressional Briefing (invited), U.S. Congress, Washington DC, July 2009
- University of Maryland, Baltimore County (invited), February 2009
- American Geophysical Union meeting (invited), San Francisco, CA, December 2008
- Arizona State University, Tempe, AZ (invited), September 2008
- California Energy Commission Climate Change conference (invited), Sacramento, CA Sept. 2008
- Oxford University (invited), Oxford, UK, July 2008
- Center for Urban Horticulture, UC Davis (invited), May 2008
- Isoscapes Conference (invited), Santa Barbara, CA, April 2008
- University of Illinois (invited), Chicago, IL, April 2008
- Northeast Section of the American Society of Plant Biologists (keynote), Storrs, CT, April 2008
- San Diego State University (invited), March 2008
- National Center for Ecological Analysis and Synthesis (invited), January 2008
- American Geophysical Union meeting, San Francisco, CA, December 2007
- Cornell University (invited), November 2007
- Ecological Society of America meeting, San Jose, CA, August 2007
- Cites and Global Climate Change Conference (invited), Irvine, CA April 2007
- Stanford University (invited), Palo Alto, CA, February 2007
- American Geophysical Union meeting, San Francisco, CA, December 2006
- IUFRO Canopy Processes workshop: Regional forest responses to environmental change (invited), Northeastern U.S., October 2006.
- 3rd Annual California Energy Commission Climate Change Conference, September 2006
- Global Carbon Project Conference: Carbon Management at Urban and Regional Levels - Connecting Development Decisions to Global Issues, Mexico City, September 2006
- Isotopes as Tracers of Ecological Change, Tomar, Portugal, March 2006
- University of New Hampshire (invited), Durham, NC, February 2006
- University of California, Riverside (invited), January 2006
- American Geophysical Union meeting, San Francisco, CA, December 2005

- CSIRO, Australia (invited), April 2005
- 11th Annual U.S.-Japan Workshop on Global Change (invited), Yokohama, Japan 2005
- University of Illinois, Urbana-Champaign (invited), March 2005
- California State University, Los Angeles (invited), February 2005
- Ecological Society of America meeting, Montreal, Canada, August 2005
- 21st Conference on Weather Analysis and Forecasting/17th Conference on Numerical Weather Prediction, Washington D.C., August 2005
- American Geophysical Union meeting, San Francisco, CA, December 2004
- BASIN/SIBAE meeting: Partitioning of fluxes between the biosphere and the atmosphere across spatial scales, Interlaken, Switzerland, April 2004.
- BASIN/SIBAE meeting: Oxygen isotopes as a tracer linking global O₂, CO₂, and H₂O cycles, Marshall, California, September 2004.
- American Geophysical Union meeting, San Francisco, CA, December 2003
- Ecological Society of America Conference, Savannah, GA, August 2003
- Integrating Science and Management on the Colorado Plateau, Flagstaff, AZ., November 2003
- CO₂ and Water Workshop, Basel, Switzerland, August 2002
- Ecological Society of America Conference, Tuscon, AZ, August 2002
- BASIN workshop, Banff, Canada, May 2002
- Ninth Annual Workshop on Weather Prediction in the Intermountain West, Salt Lake City, UT, November 2002.
- American Geophysical Union meeting, San Francisco, CA, December 2001
- Ecological Society of America meeting Madison, WI, August 2001.
- Sixth CO₂ conference, Sendai, Japan, October 2001
- American Geophysical Union meeting, San Francisco, CA, December 2000
- Great Basin Biological Research Conference, Reno, NV, October 1999
- Ecological Society of America meeting, Spokane, WA, August 1999
- American Geophysical Union meeting, San Francisco, CA, December 1998
- Ecological Society of America meeting, Albuquerque, NM, August 1997
- Ecological Society of America meeting, Providence, RI, August 1996

Grants

- "Type-2: Sustainability Innovation Engine for the Southwest (SIES)", National Science Foundation, \$15,000,000 in phase 1 (out of \$160,000,000), 3/1/24-2/28/26, Schlosser, Pataki, Bowen, Babendure, McKenna
- "Effects of Solar Panels on Canal Evaporation: Phase 1," Salt River Project, \$247,290, 1/1/23-8/31/24, Vivoni, Pataki, and Tamizhmani
- "Southwest Urban Corridor Integrated Field Laboratory (SW-IFL), U.S. Department of Energy, \$25,000,000, 9/1/22-8/31/27, Sailor (PI)
- "Understanding the hydrologic consequences of urban gardening during COVID-19." NSF supplement, \$72,807, 9/1/19-8/30/22, Pataki (PI), Litvak
- "SG: Can green infrastructure maximize ecosystem processes related to nitrogen?" NSF DEB, \$199,764, 5/1/20-4/30/22, Smith, Goel, Pataki, Shah
- "Collaborative Research: Understanding the hydrologic consequences of urban irrigation across the U.S." NSF EAR, \$498,172 (Univ of Utah portion), 9/1/19-8/30/22, Pataki (PI), Litvak, Jenerette (current)

"Toward a theory of trees as living infrastructure." NSF CNH2-L, \$42,598 subcontract from the University of California, Riverside, 9/1/19-8/30/21, Pataki

"The Nature of Cities Summit." NSF DEB, \$49,891, 4/1/19-3/31/20, Pataki (PI)

"NSF INCLUDES: Alliance to strengthen the STEM Tapestry (ASSisT): Motivating critical identity shifts to weave the STEM disenfranchised into science and the sustainability workforce." NSF INCLUDES, \$299,975, 1/1/17-12/31/18, Nadkarni, Cheek-O'Donnell, Gerton, Isabella, Pataki

"MSB-FRA: Alternative futures for the American residential macrosystem." NSF Macrosystems, \$400,102 (U of U portion), 1/1/17-12/31/21, Groffman, Grove, Lerman, Hall, Larson, Pataki, Hobbie, Cavendar-Bares, Nelson, Morse, Chowdhury, Heffernan, Neill, Trammell, Avolio

"Predicting CO₂ emissions associated with urban development in the western U.S." NOAA, \$848,181, 1/1/14-12/30/17, Lin, Pataki, Buchert, Bowling, Strong, Ehleringer

"iUtah-innovative Urban Transitions and Aridregion Hydro-sustainability", NSF EPSCoR, \$20,000,000, 7/1/12-6/30/17, Crowl, Baker, Ehleringer, Jackson-Smith, Pataki

"MRI: Acquisition of an Isotope Ratio Mass Spectrometer for Tracing Human-Environment Interactions," NSF MRI \$629,938, 8/15/13-8/14/17, Bowen, Bowling, Pataki, Ehleringer, Cerling

"WSC-Category 3: Collaborative: The role of local water resources in the water sustainability of Los Angeles," NSF WSC, \$1,484,781, 7/1/12-6/30/17, Pataki (PI), Pincetl, Hogue

"Mobile greenhouse gas flux analyzer for unmanned aerial vehicles," NASA SBIR, Univ of Utah subcontract \$75,000, 1/1/13-03/31/16, Pataki, primary awardee Los Gatos Research, Inc.

"Collaborative research: Mechanisms for the decline of leaf hydraulic conductance with dehydration, and plant- and environment-level impacts dehydration, and plant- and environment-level impacts," NSF IOS, UCI portion \$198,849, 2/1/12-1/31/16, Sack, Pataki, Buckley

"Collaborative research: Ecological homogenization of urban America," NSF-Macrosystems, UCI portion \$222,634, 6/30/11-7/1/15, Groffman, Grove, Hobbie, Cavender-Bares, Nelson, Polsky, Hall, Larson, Heffernan, Ogden, Neill, Pataki, Chowdhury

"Collaborative Research: Toward a biogeography of urban forests," NSF-DEB, \$691,498, 9/1/09-8/31/12, Pataki (PI), Jenerette, Pincetl, Gillespie

"Dynamics of urban ecosystem services and their relationship to ecohydrology: Exploratory study for a Los Angeles Urban Long-term Research Site (LA-ULTRA)", NSF-ULTRA, \$299,429, 1/1/10-12/31/12, Pincetl, Boone, Hogue, McFadden, Pataki

"Reductions in urban outdoor water use as an adaptation to rising temperatures and declining water supplies in southern California," California Energy Commission PIER, \$199,737, 4/1/10 – 3/31/12, Pataki (PI), Hogue, Pincetl

"Forest-Atmosphere Carbon Transfer and Storage (FACTS-1)", U.S. Dept. of Energy, UCI subcontract \$66,068, 12/1/09-11/30/12, Oren

"Creating sustainability indicators to assess the physical, social, and economic values of greening cities," EPA-STAR, \$369,577, 5/07-8/10, Saphores and Pataki, UCI, Pincetl and Saatchi, UCLA

"Distinguishing between greenhouse gas emissions from cropland, animal operations, and urban land cover with isotopic tracers," USDA Air Quality, \$499,276, 1/1/07 – 12/31/10, Pataki (PI), Tyler, Trumbore

"Collaborative Research: A study in the dynamics of human behavior in institutional innovation and

learning," NSF-HSD, \$748,712, 9/1/06 – 10/31/10, Pincetl, Saatchi, UCLA, Pataki, Saphores, UCI

"The spatial distribution of isotopic tracers in urban organic matter: understanding multiple and confounding effects of human activities on urban vegetation," NSF Geography, \$299,914, 8/06 – 1/10, Pataki (PI)

"Sources of dissolved nitrogen to urban watersheds in Orange County, California," UCI CORCLR, \$24,876, 7/1/07-6/30/06, Pataki (PI) and Cooper

"Acquisition of capability for single-compound AMS measurement of organic matter at the W.M. Keck Carbon Cycle Accelerator Mass Spectrometry Facility at UC Irvine" NSF EAR, \$411,163, Druffel, Pataki, Southon, Treseder, Trumbore, 11/05 – 10/08

"Improving greenhouse gas emissions inventories in California with atmospheric measurements," UC Energy Institute, \$35,000, 7/06 – 6/07, Pataki (PI)

"Controls on C and N cycling in a Southern California urban turfgrass ecosystem" Kearney Foundation of Soil Science, \$39,951, 1/06 – 12/06, Pataki (PI)

"Plant water use in Owens Valley, CA: Understanding the influence of climate and depth to groundwater." UC Center for Water Resources, \$57,882, Pataki (PI), 7/05 – 6/07

Research Experience for Undergraduates, NSF cross-directorate, \$30,000, Forster, Pataki, Emmi, Klewicki and Peterson, 1/04-2/07

"Urban trace-gas emissions study (UTES): Interactions between canopy processes, anthropogenic emissions, and social institutions in the Salt Lake Valley, Utah." NSF-biocomplexity, \$1,498,173, Pataki (PI), Emmi, Forster, Klewicki, Peterson, 9/02-2/07

"Is carbon sequestration a feasible management goal for urban soils? Exploratory research in the Los Angeles Basin" Newkirk Center for Science and Society, \$12,500, Pataki and Trumbore, 9/05 – 9/06

Workshop: "Carbon respiration from terrestrial ecosystems – reducing uncertainties in the role played by respiration in the global carbon cycle." NSF-CaRTE, \$72,277, Trumbore, 9/02-8/04

"Support of the GCTE Focus 1 Office (Ecosystem Processes in Biogeochemical Cycles)", NASA, \$170,660, Ehleringer and Pataki, 2/02-12/03

Workshop: "Tracing carbon in elevated CO₂ experiments: A workshop on isotopic analyses of where the carbon is going." DOE \$19,774, Ellsworth and Pataki, 1/01-1/02

Teaching

Courses Taught at the University of Utah:

BIOL 1620 Fundamentals of Biology II (lower division undergraduate)

BIOL 5440/CMP 6610 Urban Ecology (upper division undergraduate/graduate)

BIOL 7406 Speakerfest (graduate)

SCI 6990 Professional Development Seminar (graduate)

NSF Grant Writing Foundations (Research Education)

NSF Grant Writing Workshop (Research Education)

Courses Taught at UC Irvine:

BIO E127/ESS 168/268 Physiological Plant Ecology (undergraduate upper division/graduate)

BIO 2B The Ecology of Your Backyard (freshman seminar)

BIO 2B Water in the West (freshman seminar)

BIO 2B Trees of the World (freshman seminar)

ESS 60B Local and Regional Environmental Issues (undergraduate lower division)

ESS 218 Terrestrial Ecology (graduate)

ESS 226 Land Surface Processes (graduate)

US 13A Environmental Studies (undergraduate lower division)

Courses Taught at ASU:

SOS 510 Perspectives in Sustainability (graduate)

Graduate students supervised:

Neeta Bijoor, Ph.D., 2010, now a Water Conservation Specialist, Santa Clara Valley Water District, California

Christine Goedhart, Ph.D., 2010, now a Science Education Specialist, University of British Columbia

Sonja Djuricin Burd, Ph.D., 2011, now Professor, College of Southern Nevada

Elizaveta Litvak, Ph.D. 2012, now a Research Associate, Arizona State University

Wenwen Wang, Ph.D. 2012, now a patent lawyer

Moumita Kundu, MCMP, 2014

Carolina Gómez-Navarro, 2019, now a Visiting Assistant Professor, University of Utah

La'Shaye Ervin Cobley, 2019, now an Air Pollution Specialist, California Air Resources Board

Other thesis and advancement to candidacy committees:

Mariah Carbone, Allison Chan, Chris Doughty, Brandon Finley, Noortje Grijseels, David Lebauer, Aaron Fellows, Leah Goldstein, Yusuf Jameel, Anne Kelly, Hsiao-wen Lin, David Love, Nicole Nowinski, Calen May-Tobin, Adrian Rocha, Jeffrey Ross, Gerald Schneider, Marko Spasojevic, Jennifer Talbot, Matthew Whiteside, David Love, Gerald Schneider, Robin Rothfeder, Austin Green

Post-doctoral researchers supervised:

Heather McCarthy, now an Associate Professor, University of Oklahoma

Amy Townsend-Small, now an Associate Professor, University of Cincinnati

Tara Trammell, now an Assistant Professor, University of Delaware

Chalita Sriladda Forgotson, now a Research Scientist, NASA

Meghan Avolio, now an Assistant Professor, Johns Hopkins University

Rebecca Hale, now an Assistant Professor, Idaho State University

Kendra Chritz, now an Assistant Professor, University of British Columbia

Carolina Gómez-Navarro, now a Visiting Assistant Professor, University of Utah

Rose Smith, now a Stream Scientist, Sageland Collaborative, Salt Lake City, Utah

Matthew Wilfong, now a Visiting Assistant Professor, St. Mary's College of Maryland, St. Mary's City, MD

Elizaveta Litvak, now a Research Associate, Arizona State University

Rajat Qubaja, Arizona State University

Undergraduate researchers supervised at the University of Utah: William Borrowman (Honors Biology thesis), Eden Brush (visiting from U Oregon), Claire O'Donnell, Thomas Reiersen, Barbara Uhl, Lily Wetterlin, Grant Doxey, Michael Navidsomksis, Samantha King, Elmera Azadpour (Honors Biology thesis), Madeline Jensen, Kyra Mann (Honors Biology Thesis), Linda Zhao, Lila Sorensen

Undergraduate researchers supervised at UC Irvine: Kristine Adan, Anait Arsenyan, Ryan Babadi, Melissa Benitez, Patti Chi, David Choi (undergraduate thesis), Madina Chowdhury, Ibrahima Diallo, Aaron Ellis (undergraduate thesis), Hannah Erbele, Gabriel Giannini, Thomas Gocke, MaryKay Herzenach, Heather Hee, Sophia Ko, Justine Law, Fabian Maganas, Greg Maler, Nicole Ngo (undergraduate thesis), Dave Nguyen, Katherine Nguyen, Thien Nguyen, Trung Nguyen, Boyang Pan, Liz Seward, Aubrey Stills, Anthony Trung, Leon Tsoi (undergraduate thesis), Eric Sun