

CURRICULUM VITAE

David M. Iwaniec
Assistant Professor | Urban Sustainability
Urban Studies Institute | Andrew Young School of Policy Studies
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RESEARCH INTERESTS

Sustainable Urban Systems:

Anticipatory Governance, Climate Resilience, Co-production Research, Future Studies, Scenario Development, Social-Ecological-Technological Systems, Sustainability Transformations, Urban Ecosystems

EDUCATION AND PROFESSIONAL CREDENTIALS

EDUCATION

2013 Doctorate of Philosophy, Sustainability, Arizona State University
2008 Master of Science, Biological Sciences, Florida International University
2002 Bachelor of Science, Biological Sciences, Florida International University

FELLOWSHIP AND AWARDS

2020 Dean's Early Career Award, Andrew Young School of Policy Studies, GSU
2018 Signature Experience Course Development Award, GSU
2016 Sustainability Scientists and Scholars Award, ASU
2011 President's Award for Sustainability, ASU
2008 NSF Integrative Graduate Education and Research Traineeship (IGERT) Urban Ecology Fellow
2003 U.S. Environmental Protection Agency (EPA) STAR Fellow

WORK EXPERIENCE

2017 – Assistant Professor, Urban Studies Institute, Andrew Young School of Policy Studies, GSU, Atlanta, GA
2016 – Senior Sustainability Scientist, Julie Ann Wrigley Global Institute of Sustainability, ASU, Tempe, AZ

- 2016 – 2017 Assistant Research Professor, School of Sustainability, ASU, Tempe, AZ
- 2014 – 2015 Postdoctoral Researcher, Julie Ann Wrigley Global Institute of Sustainability, NSF Central Arizona–Phoenix Long Term Ecological Research (CAP LTER), ASU, Tempe, AZ
- 2012 – 2013 Research Technician, NSF Division of Information and Intelligent Systems, School of Computing, Informatics and Decision Systems Engineering, ASU, Tempe, AZ
- 2009 Visiting Instructor, Graduate Program in Sustainability Science - Global Leadership Initiative, University of Tokyo (UT), Kashiwa, Japan

SCHOLARSHIP

PUBLICATIONS: REFEREED SCHOLARLY

- Iwaniec, D.M., M. Gooseff, K. Suding, D. Johnson, D. Reed, D. Peters, B. Adams, J. Barrett, B. Bestelmeyer, M. Castorani, E.M. Cook, M.J. Davidson, P. Groffman, N. Hanan, L. Huenneke, P. Johnson, D. McKnight, R. Miller, G. Okin, D. Preston, A. Rassweiler, C. Ray, O. Sala, R. Schooley, T. Seastedt, M. Spasojevic, E. Vivoni. (accepted 2020, in press). Future trajectories for ecosystems of the U.S. Long Term Ecological Research Network: The importance of connectivity. *Ecosphere*
- Sampson, D., E.M. Cook, M.J. Davidson, N.B. Grimm, D.M. Iwaniec. (accepted 2020, in press). Simulating sustainable urban water futures. *Sustainability Science*
- Iwaniec, D.M., M.J. Davidson, E.M. Cook, M. Barbés-Blázquez, N.B. Grimm. (2020). Integrating climate adaptation planning into future visions: A strategic scenario for the central Arizona–Phoenix region. *Landscape and Urban Planning*, 200, 103820
- Iwaniec, D.M., E.M. Cook, M.J. Davidson, N.B. Grimm, N.B. M. Barbés-Blázquez, M. Georgescu, E.S. Krayenhoff, X. Li, A. Middel, D.A. Sampson. (2020) The co-production of sustainable future scenarios. *Landscape and Urban Planning*, 197, 103744
- Raudsepp-Hearne C., G. Peterson, E. Bennett, O. Biggs, A. Norstrom, L. Pereira, J. Vervoort, D.M. Iwaniec, T. McPhearson, T. Hichert. (2019) Seeds of good Anthropocenes: Developing sustainability scenarios for Northern Europe. *Sustainability Science*, 15:605–617
- Iwaniec, D.M., E.M. Cook, O. Barbosa, N.B. Grimm. (2019) The framing of urban sustainability transformations. *Sustainability*, 11(3):573
- Markolf, S.A., M.V. Chester, D.A. Eisenberg, D.M. Iwaniec, C.I. Davidson, R. Zimmerman, T.R. Miller, B.L. Ruddell, H. Chang. (2018) Interdependent infrastructure as linked social, ecological, and technological systems (SETS) to address lock-in and improve resilience. *Earth's Future*, 6
- Rosenzweig, B.R., L. McPhillips, H. Cheng, C. Welty, M. Matsler, D.M. Iwaniec, C.I. Davidson. (2018) Pluvial flood risk and opportunities for resilience. *WIREs Waters*, e1302

- McPhearson, T., D.M. Iwaniec, B. Xuemei. (2017) Positives visions for guiding transformations toward desirable urban futures. *Current Opinion in Environmental Sustainability*, 22:1–8
- van Riper, C.J., A.C. Landon, S. Kidd, P. Bitterman, L.A. Fitzgerald, E.F. Granek, S. Ibarra, D.M. Iwaniec, C.M. Raymond, D. Toledo. (2017) Incorporating sociocultural phenomena into ecosystem-service valuation: The importance of critical pluralism. *BioScience*, 67(3):233–244
- Iwaniec, D.M., G.S. Metson, D. Cordell. (2016) Towards urban food & water security through collaborative design and impact. *Current Opinion in Environmental Sustainability*, 20:1–7
- Muñoz-Erickson, T.A., L. Campbell, D.L. Childers, M. Grove, D.M. Iwaniec, E. Svenden, S.T.A. Pickett, M. Romolini. (2016) Demystifying governance and its role for transitions in urban social-ecological systems. *Ecosphere*, 7(11):1–11
- McHale, M.R., S.T.A. Pickett, O. Barbosa, D.N. Bunn, M.L. Cadenasso, D.L. Childers, M. Gartin, G. Hess, D.M. Iwaniec, T. McPhearson, M.N. Peterson, A.K. Poole, L. Rivers III, S.T. Shutters. (2015) The new global urban realm: Complex, connected, diffuse, and diverse social-ecological systems. *Sustainability*, 7(5):5211–5240
- Turner, K., K. Benessaiah, S. Warren, D.M. Iwaniec. (2015) Essential tensions in interdisciplinary scholarship: Navigating challenges in affect, epistemologies, and structure in environment-society research centers. *Journal of Higher Education*, 70(4):649–665
- Metson, G.S., D.M. Iwaniec, L. Baker, E.M. Bennett, D.L. Childers, D. Cordell, N.B. Grimm, J.M. Grove, D. Nidzgorski, S. White. (2015) Urban phosphorus sustainability: Systemically incorporating social, ecological, and technological factors into phosphorus flow analysis. *Environmental Science & Policy*, 47:1–11
- Iwaniec, D.M., A. Wiek. (2014) Advancing sustainability visioning practice in planning—the General Plan revision in Phoenix, AZ. *Planning Practice and Research*, 29(5):543–568
- Iwaniec, D.M., D.L. Childers, K. VanLehn, A. Wiek. (2014) Studying, teaching, and applying sustainability visions using systems modeling. *Sustainability*, 6(7):4452–4469
- Wiek, A., D.M. Iwaniec. (2014) Quality criteria for visions and visioning in sustainability science. *Sustainability Science*, 9(4):497–512
- Metson, G.S., R.L. Hale, D.M. Iwaniec, E.M. Cook, J. Corman, C. Galletti, D.L. Childers. (2012) Phosphorus in Phoenix: A budget and spatial representation of phosphorus in an urban ecosystem. *Ecological Applications*, 22(2):705–721
- Iwaniec, D.M., D.L. Childers, D. Rondeau, C.J. Madden. (2006) Effects of hydrologic and water quality drivers on periphyton dynamics in the southern Everglades. *Hydrobiologia*, 569(1):223–235
- Childers, D.L., D.M. Iwaniec, D. Rondeau, G. Rubio, E. Verdon C.J. Madden. (2006) Responses of sawgrass and spikerush to variation in hydrologic drivers and salinity in Southern Everglades marshes. *Hydrobiologia*, 569(1):273–292

Ewe, S.M.L., E.E. Gaiser, D.L. Childers, V.H. Rivera-Monroy, D.M. Iwaniec, R.R. Twilley. (2006) Spatial and temporal patterns of aboveground net primary productivity along two freshwater-estuarine transects in the Florida Coastal Everglades. *Hydrobiologia*, 569(1):459–474

BOOK CHAPTERS: REFEREED SCHOLARLY

Cordell, D., G.S. Metson, D.M. Iwaniec. (2016) Transforming Cities: Securing food and clean waterways through phosphorus governance. In Fam, D., J. Palmer, C. Mitchell, C. Riedy (Eds.) *Transdisciplinary Research and Practice for Sustainable Outcomes*. Taylor & Francis

Grimm, N.B., E.M. Cook, R.L. Hale, D.M. Iwaniec. (2016) A broader framing of ecosystem services in cities: benefits and challenges of built, natural, or hybrid system function. In Seto, K.C., W.D. Solecki, C.A. Griffith (Eds.) *The Routledge Handbook on Urbanization and Global Environmental Change*. Taylor & Francis

Childers, D.L., Z. Caple, C. Carlielle-Marquet, D. Cordell, V. Gerhart, D.M. Iwaniec, S. White. (2013) Future scenarios for the global sustainable use of P. In Elser, J., K. Wyant, J. Corman (Eds.) *Phosphorus, Food, Our Futures*. Oxford Press

Wyant, K., J. Corman, D.M. Iwaniec, R.L. Hale. (2013) Sustainable phosphorus. In Elser, J., K. Wyant, J. Corman (Eds.) *Phosphorus, Food, Our Futures*. Oxford Press

Grimm, N.B., R.L. Hale, E.M. Cook, D.M. Iwaniec. (2011) Urban biogeochemical flux analysis. In Douglass, I., D. Goode, M.C. Houck, R. Wang (Eds.) *The Routledge Handbook of Urban Ecology*. Taylor & Francis

MANUSCRIPTS IN REVIEW

Iwaniec, D.M. The present tense of long-term thinking. In Chester, M.V., S. Derrible, et. al. (Eds.) *Infrastructure at 2100*.

Iwaniec, D.M., M. Barbés-Blázquez, E.M. Cook, N.B. Grimm, L. Mannetti, T. McPhearson, T.A. Muñoz-Erickson. Positive futures: Concepts and methods. In Hamstead, Z., D.M. Iwaniec, T. McPhearson, et. al. (Eds.) *Resilient Urban Futures*. Springer-Nature

Barbés-Blázquez, M., N.B. Grimm, E.M. Cook, Iwaniec, D.M., T.A. Muñoz-Erickson, V. Verduzco, D. Wahl. Assessing future resilience, equity, and sustainability in scenario planning. In Hamstead, Z., D.M. Iwaniec, T. McPhearson, et. al. (Eds.) *Resilient Urban Futures*. Springer-Nature

Yeowon, K., L. Mannetti, D.M. Iwaniec, N.B. Grimm, M. Barbés-Blázquez, S. Markolf. Social, ecological, and technological strategies for climate adaptation. In Hamstead, Z., D.M. Iwaniec, T. McPhearson, et. al. (Eds.) *Resilient Urban Futures*. Springer-Nature

Muñoz-Erickson, T.A., K. Selkirk, R.J. Hobbins, D.M. Iwaniec, T.R. Miller, C. Miller. Anticipatory resilience: Bringing back the future into urban planning and knowledge systems. In Hamstead, Z., D.M. Iwaniec, T. McPhearson, et. al. (Eds.) *Resilient Urban Futures*. Springer-Nature

PUBLICATIONS: NON-REFEREED AND REPORTS

- 2020 Drawdown Georgia: Identifying the most promising drawdown solutions for Georgia. Drawdown Georgia (report)
- 2019 Envisioning future urban resilience to climate change in the Greater Miami Area. Urban Resilience to Extreme Events Sustainability Research Network (UREx SRN) (report)
- 2019 Resilience, sustainability, and equity: Syracuse urban scenarios. UREx SRN (report)
- 2019 Envisioning governance for urban resilience in Portland, Oregon. UREx SRN (report)
- 2019 Identifying the landscape of new technology: Report of the policy in the digital world. Andrew Young School of Policy Studies (report)
- 2018 Resilient coastal cities: Santurce innovation lab. Smart and Connected Communities (S&CC) (report)
- 2018 Resilient coastal cities: Miami innovation lab. S&CC (report)
- 2018 Climate change urban resilience scenarios in South Phoenix. UREx SRN (report)
- 2018 Positive visions for sustainable, resilient, and equitable cities. *The Nature of Cities* (article)
- 2018 Convergence science for urban resilience to extreme weather-related disasters. NSF (report)
- 2018 Sustainable Future Scenarios 2060. CAP LTER (report)
- 2018 Building networked capacity for transforming future cities—Innovations Plazas. UREx SRN (report)
- 2018 Envisioning future urban resilience to climate change in Central Maryland. UREx SRN (report)
- 2018 From disaster to transformation: Lessons from Puerto Rico in the aftermath of Hurricane María. UREx SRN (report)
- 2017 Visioning climate justice in Northern Manhattan. UREx SRN (report)
- 2017 Escenarios de resiliencia urbana al cambio climático en Hermosillo, México. UREx SRN (report)
- 2017 Escenarios de resiliencia urbana al cambio climático en Valdivia, Chile. UREx SRN (report)

- 2017 El desarrollo de acciones para atender el tema del cambio climático en San Juan. UREx SRN (report)
- 2017 Scenario planning primer. UREx SRN (report)
- 2017 Sistemas Sociales-Ecológicos-Tecnológicos. UREx SRN (report)

EXTERNALLY-FUNDED RESEARCH PROJECTS

- 2019 NSF Growing Convergence Research. GCR: Social, Ecological, and Technological Infrastructure Systems for Urban Resilience (SETS Convergence; Co-Director, Co-PI, Executive Management Team, and sub-awardee PI, \$3,799,000; 2019 – 2024)
- 2019 Ray C. Anderson Foundation: Georgia Drawdown (Co-I, Working Group Lead, and sub-awardee PI, \$1,000,000; 2019 – 2020)
- 2018 NSF Long Term Ecological Research. CAP LTER: Investigating urban ecology and sustainability in Phoenix through the lens of urban ecological infrastructure (Co-I, Leadership Team, and sub-awardee PI, \$6,762,000; 2018 – 2022)
- 2018 Food Well Alliance: Mapping Atlanta's Local Food Network (Co-I, \$35,000; 2018)
- 2017 NSF Smart and Connected Communities. S&CC-Planning: Building resilient coastal cities through smart and connected communities (Co-I, SP, \$99,867; 2017 – 2019)
- 2017 NSF International Research Experience for Students. IRES: Interdisciplinary student research on urban resilience in Latin America (Co-I, SP, \$249,705; 2017 – 2020)
- 2017 NSF Long Term Ecological Research. CAP LTER: "Design with nature" infrastructure in Phoenix: A research framework for exploring urban ecology and sustainability (Co-I, Leadership Team, and sub-awardee PI, \$2,254,000; 2017 – 2022)
- 2015 NSF Sustainability Research Network. UREx SRN: Urban resilience to climate change-driven extreme events (Co-I, Executive Management Team, and sub-awardee PI, \$11,999,692; 2015 – 2020)
- 2014 ISSC Transformations to Sustainability Programme. Phosphorus sustainability: Future urban transformations of under-governed resources by engaging stakeholders (P-FUTURES) (Co-PI, \$38,105; 2014 – 2015)
- 2010 NSF LTER Network. Identifying the benefits and barriers to cross-site social-ecological research in urban systems (Co-PI, \$8,100; 2010 – 2011)

- 2010 Frontiers in Life Science Conference Series, ASU. Phosphorus, food, & our future—An international summit about closing the human phosphorus cycle (Co-PI, \$30,000; 2010 – 2011)
- 2008 NSF Integrative Graduate Education and Research Traineeship (IGERT). Urban Ecology (Fellowship, \$133,000; 2008 – 2012)
- 2005 National Center for Ecological Analysis and Synthesis (NCEAS). Quantifying success in environmental management using ecosystem services valuation techniques—A joint session between the Ecosystem-based Management and Ecosystem Services NCEAS working groups (Co-PI, \$9,800; 2005)
- 2003 U.S. Environmental Protection Agency (EPA) STAR. Regulation of Structure and Function of Periphyton From the Florida Everglades, USA (PI, \$87,452; 2003 – 2005)

PAPERS PRESENTED AT PROFESSIONAL MEETINGS AND CONFERENCES

INVITED TALKS

- 2020 Drawdown Georgia: What are the most promising solutions for achieving carbon neutrality in Georgia? Southeast Sustainability Directors Network Annual Meeting, virtual presentation
- 2019 Drawdown Georgia: Beyond Carbon | Health, Equity, Jobs, Environment. Georgia Climate Conference, Atlanta, GA
- 2019 Advances in transdisciplinary and co-production research. NSF PI Meeting (SRN), Washington D.C.
- 2019 Positive futures for transformative change, New Frontiers Session. Natural Capital Symposium, Stanford University, CA
- 2019 Sustainability scenarios for research-practice. NSF CAP LTER All Scientist Meeting, Tempe, AZ
- 2019 Interdisciplinary approaches to urban resilience. Comparative Urbanism: Global Perspectives, Urban Studies Institute, Atlanta, GA (discussant)
- 2018 Envisioning urban resilience to extreme events. School of City & Regional Planning Seminar, Georgia Institute of Technology, Atlanta, GA
- 2018 The urban agenda. Community Foundation: Scholars Philanthropy Program, Atlanta, GA
- 2018 Resilient urban futures: What's happened and what's to come. NSF UREx SRN All-Hands Meeting, Tempe, AZ

- 2018 Scenarios, futures, and synthesis. NSF CAP LTER All Scientist Meeting, Tempe, AZ
- 2017 Sustainability and resilience planning. Global Partnership for Better Cities, Hong Kong, China
- 2017 Scenarios of urban adaptation and transformation. Baltimore Ecosystem Study LTER Synthesis Meeting, Baltimore, MD
- 2017 Envisioning urban resilience to extreme events. Geosciences Seminar Series, GSU, Atlanta, GA
- 2017 Transdisciplinary research-practice: Impacts of urbanization on the food-energy-water nexus, Global Change System for Analysis, Research and Training, Boulder, CO
- 2016 Climate impacts and scenarios for the future of Phoenix. Center for Climate and Energy Solutions (C2ES), City-Business Collaboration on Resilience Planning in Phoenix, Phoenix, AZ
- 2016 CAP LTER synthesis and futures research. NSF CAP LTER All Scientist Meeting, Tempe, AZ
- 2016 Transdisciplinary Research and Practice: Concepts and Approaches. Transdisciplinary workshop on the impacts of urbanization on the food-energy-water nexus, Global Change System for Analysis, Research and Training, Tempe, AZ
- 2015 Social transformation for a just and sustainable world. World Social Science Forum, Durban, South Africa
- 2015 Delving deeper into engagement and broader impacts: Lessons from across the Network. NSF LTER All Scientist Meeting, Estes Park, CO
- 2015 Co-development of sustainable, resilient urban futures. Ecología Urbana: Aportes Interdisciplinarios para la Sustentabilidad Urbana, Santiago, Chile
- 2015 Blantyre: Towards urban food, energy, and water security. P-FUTURES, Blantyre, Malawi
- 2015 Using scenarios to think about the future of cities. NSF CAP LTER All Scientist Meeting, Phoenix, AZ
- 2014 Hanoi: Towards urban food and water security. P-FUTURES, Hanoi, Vietnam
- 2014 Sustainable future scenarios. NSF Mini-Symposium on LTER Scenarios and Forecasts, National Science Foundation, Arlington, VA
- 2013 Participatory modeling for municipal sustainability: General Plan Phoenix. NSF CAP LTER, NSF Site Review, Tempe, AZ

- 2010 Using ecosystem systems models to drive sustainability dialogue. Graduates in Integrative Society and Environment Research, Tempe, AZ
- 2010 Crafting urban sustainability visions. Urbanization and Global Environmental Change (UGEC) International Conference, Tempe, AZ
- 2009 Theory, empirical research, and teaching in sustainability science—Challenges, gaps, and future trajectories. Kashiwa Sustainability Science Seminar Series, UT, Kashiwa, Japan

OTHER RECENT PRESENTATIONS (FROM 2015 – 2020)

- 2020 Iwaniec, D.M., E.M. Cook, M. Berbés-Blázquez, N.B. Grimm. The co-production of sustainable future scenarios. NSF CAP LTER All Scientist Meeting, Tempe, AZ
- 2020 Berbés-Blázquez, M., Y. Kim, N.B. Grimm, E.M. Cook, D.M. Iwaniec. Tell me what you want, what you really, really want: An analysis of practitioner-identified solutions from scenario workshops. NSF CAP LTER All Scientist Meeting, Tempe, AZ
- 2020 Mustafa, A., E.M. Cook, T. McPhearson, O. Barbosa, T.A. Muñoz-Erickson, Berbés-Blázquez, N.B. Grimm, D.M. Iwaniec. Future resilient land-use visions for Valdivia, Chile. American Meteorological Society Meeting, Boston, MA
- 2020 Ortiz, L.R., R. Pokhrel, A. Mustafa, T. McPhearson, J. Gonzalez, E.M. Cook, D.M. Iwaniec, T.A. Muñoz-Erickson, P. Mendez-Lazaro. Combined climate-land change driven impacts from co-produced land cover scenarios in San Juan, PR. American Meteorological Society Meeting, Boston, MA
- 2019 Iwaniec, D.M., M. Berbés-Blázquez, E.M. Cook, N.B. Grimm, L. Mannetti, T. McPhearson, T.A. Muñoz-Erickson. Co-producing urban transformative for resilience to extreme events. Transformations, Santiago, Chile
- 2019 Grimm, N.B., M. Berbés-Blázquez, M.V. Chester, D.M. Iwaniec, T. McPhearson, T.A. Muñoz-Erickson, C.L. Redman. Urban resilience to extreme events: framing cities and their infrastructure as social-ecological-technological systems (SETS). Transformations, Santiago, Chile
- 2019 Mannetti, L., E.M. Cook, D.M. Iwaniec, T.A. Muñoz-Erickson, R.J. Hobbins. A multimodal approach to framing urban resilience: A Valdivian case study. Transformations, Santiago, Chile
- 2019 Cook, E.M., D.M. Iwaniec, M. Berbés-Blázquez, N.B. Grimm, L. Mannetti, T. McPhearson, T.A. Muñoz-Erickson. Transformative co-produced visions for future urban sustainability and resilience. Transformations, Santiago, Chile

- 2019 Muñoz-Erickson T.A., E.M. Cook, O. Barbosa, M. Feagan, R.J. Hobbins, D.M. Iwaniec, L. Mannetti, C. Miller, T.R. Miller, K. Selkirk. Anticipatory knowledge systems to co-produce transformative visions for urban resilience. Transformations, Santiago, Chile
- 2019 Iwaniec, D.M., N.B. Grimm. Understanding and responding to extreme weather events in ecosystems and social-ecological-technological systems (SETS). ILTER Open Science Meeting, Leipzig, Germany
- 2019 Grimm, N.B., C.L. Redman, M.V. Chester, D.M. Iwaniec, T. McPhearson, T.R. Miller, T.A. Muñoz-Erickson. Urban resilience to extreme events: framing cities and their infrastructure as social-ecological-technological systems (SETS). ILTER Open Science Meeting, Leipzig, Germany
- 2019 Iwaniec, D.M., M. Berbés-Blázquez, E.M. Cook, N.B. Grimm, L. Mannetti, T. McPhearson, T.A. Muñoz-Erickson. Positive futures for transformative change. American Geophysical Union Open Science Meeting, San Francisco, CA
- 2019 Mannetti, L., M. Berbés-Blázquez, D.M. Iwaniec, E.M. Cook, Y. Kim, T.A. Muñoz-Erickson, R.J. Hobbins. A multi-modal approach to framing urban resilience. Earth Systems Governance, Oaxaca, Mexico
- 2019 Cook, E.M., M. Berbés-Blázquez, R. Carrero, N.B. Grimm, D.M. Iwaniec, T. McPhearson, P. Mendez-Lazaro, T.A. Muñoz-Erickson, A. Mustafa, L. Ortiz, J. Santos-Hernández. The future of San Juan, Puerto Rico: Assessing tradeoffs of co-developed future visions for a resilient San Juan. Ecological Society of America, Louisville, KY
- 2019 Balogh, S., A. Lugo, T.A. Muñoz-Erickson, D.M. Iwaniec, T. McPhearson. Energy cost and energy return on investment (EROI) for stakeholder developed pathways to resilience, sustainability cities. NSF UREx SRN, All-Hands Meeting, Baltimore, MD
- 2019 Mannetti, L., M. Berbés-Blázquez.; E.M. Cook, N.B. Grimm, D.M. Iwaniec, T. McPhearson, P. Méndez Lazaro, T.A. Muñoz-Erickson, L.R. Ortiz, J. Santos-Hernández. Scenarios workshop II: San Juan. NSF UREx SRN, All-Hands Meeting, Baltimore, MD
- 2018 Hobbins, R.J., T.A. Muñoz-Erickson, M. Feagan, M.V. Chester, E.M. Cook, E. Gaiser, N.B. Grimm, D.M. Iwaniec, P. Méndez-Lazaro, T. McPhearson, C. Miller, D. Sauter, T. Troxler, C. Welty. Climate risk visualizations: Tools, users and uses. Institute for Social Science Research, Tempe, AZ
- 2018 Iwaniec, D.M., M. Berbés-Blázquez, E.M. Cook, M.J. Davidson, N.B. Grimm, T. McPhearson, T.A. Muñoz-Erickson. Positive futures. IFoU: Reframing Urban Resilience Implementation: Aligning Sustainability and Resilience, Barcelona, Spain

- 2018 Muñoz-Erickson, T.A., E.M. Cook, M. Feagan, R.J. Hobbins, D.M. Iwaniec, C. Miller, T.R. Miller. Designing anticipatory knowledge for resilient and sustainable urban futures. IFoU: Reframing Urban Resilience Implementation: Aligning Sustainability and Resilience, Barcelona, Spain
- 2018 Cook, E.M., M. Berbés-Blázquez, N.B. Grimm, D.M. Iwaniec, T. McPhearson, T.A. Muñoz-Erickson. Co-development of positive visions for future urban sustainability and resilience. IFoU: Reframing Urban Resilience Implementation: Aligning Sustainability and Resilience, Barcelona, Spain
- 2018 Grimm, N.B., C.L. Redman, M.V. Chester, D.M. Iwaniec, T. McPhearson, T.R. Miller, T.A. Muñoz-Erickson. A social-ecological-technical systems approach to understanding urban complexity and building climate resilience. IFoU: Reframing Urban Resilience Implementation: Aligning Sustainability and Resilience, Barcelona, Spain
- 2018 Iwaniec, D.M. Urban Sustainability and Climate Resilience. UN RCE Research Roundabout, Atlanta, GA (lightning talk)
- 2018 Iwaniec, D.M., E.M. Cook, M. Berbés-Blázquez, M.J. Davidson, N.B. Grimm, T. McPhearson, T.A. Muñoz-Erickson. Positive futures. American Association of Geographers, New Orleans, LA
- 2018 Muñoz-Erickson, T.A., E.M. Cook, R.J. Hobbins, M. Johnson, D.M. Iwaniec, L. Campbell. Knowledge systems for urban stewardship: Exploring the role of civic knowledge systems in environmental and sustainability governance. American Association of Geographers, New Orleans, LA
- 2018 Davidson, M.J., Y. Kim, M. Berbés-Blázquez, N.B. Grimm, Z. Hamsted, D. Iwaniec. Urban climate adaptation and vulnerability: Comparative assessment of social, ecological, and technological strategies in three US cities. American Association of Geographers, New Orleans, LA
- 2018 Berbés-Blázquez M., D.M. Iwaniec, D. Wahl, E.M. Cook. Assessing the resilience, sustainability, and transformability of the future of Latin American cities. American Association of Geographers, New Orleans, LA
- 2018 Cook, E.M., D.M. Iwaniec, N.B. Grimm, O. Barbosa. Research-practice criteria for urban sustainability transformations. American Association of Geographers, New Orleans, LA
- 2018 Davidson, M.J., Y. Kim, M.V. Chester, E.M. Cook, N.B. Grimm, D.M. Iwaniec. Downscaling regional scenarios: The application of social-ecological-technological framework. NSF CAP LTER All Scientist Meeting, Tempe, AZ
- 2018 Davidson, M.J., E.M. Cook, N.B. Grimm, D.M. Iwaniec. Sustainable Future Scenarios 2060. NSF CAP LTER All Scientist Meeting, Tempe, AZ

- 2018 Iwaniec, D.M., E.M. Cook, M. Berbés-Blázquez, M.J. Davidson, N.B. Grimm, T. McPhearson, T.A. Muñoz-Erickson. Urban Resilience to Extremes (UREx) participatory future scenarios. NSF PI Meeting (SRN), Washington D.C.
- 2018 Davidson, M.J., Y. Kim, M. Berbés-Blázquez, N.B. Grimm, Z. Hamsted, D. Iwaniec. Urban climate adaptation and vulnerability: Assessing social, ecological, and technological strategies in Baltimore and Phoenix. NSF UREx SRN All-Hands Meeting, Tempe, AZ
- 2018 Matsler, M., B. Rosenzweig, E. Rosi, P. Groffman, M. Grove, K. Baja, C. Welty, M. Galvin, E.M. Cook, D.M. Iwaniec. The scenarios workshop planning process: A snapshot from Baltimore. NSF UREx SRN All-Hands Meeting, Tempe, AZ
- 2018 Berbés-Blázquez, M., E.M. Cook, M.J. Davidson, N.B. Grimm, D.M. Iwaniec, T.A. Muñoz-Erickson, T. McPhearson. Participatory scenarios for urban resilience. Urban Water Innovation Network Annual Meeting, Fort Collins, CO
- 2018 McPhearson, T., M. Berbés-Blázquez, R. Carrero, E.M. Cook, Y. Depietri, K. Dahal, C. Farmer, N.B. Grimm, Z. Hamstead, D.M. Iwaniec, T.A. Muñoz-Erickson, J. Randhawa, D. Sauter, C. Wyczalkowski. Resilient urban futures: Modeling co-designed transformation scenarios to climate driven extreme events. Ecological Society of America, New Orleans, LA
- 2018 Berbés-Blázquez, M., D.M. Iwaniec, E.M. Cook, M.J. Davidson, N.B. Grimm, T.A. Muñoz-Erickson, D. Wahl. Assessing scenario visions: Resilience, equity, and sustainability of the future of South Phoenix. NSF LTER All Scientists Meeting, Asilomar, CA
- 2018 Berbés-Blázquez, M., D.M. Iwaniec, N.B. Grimm. Scenario planning. NSF LTER All Scientists Meeting, Asilomar, CA
- 2018 Grimm, N.B., D.M. Iwaniec, M. Berbés-Blázquez. Understanding and responding to extreme weather events in ecosystems and social-ecological-technological systems. NSF LTER All Scientists Meeting, Asilomar, CA
- 2017 Iwaniec, D.M., E.M. Cook, T. McPhearson, T.A. Muñoz-Erickson, M.J. Davidson, M. Berbés-Blázquez, N.B. Grimm. Visions and strategies for guiding urban transformations. PECS II, Oaxaca, Mexico
- 2017 Cook, E.M., D.M. Iwaniec, O. Barbosa, N.B. Grimm. A social-ecological-technological systems (SETS) approach to urban ecosystem services and resilience. PECS II, Oaxaca, Mexico
- 2017 Berbés-Blázquez, M., D.M. Iwaniec. Vulnerability to climate extremes across UREx network cities: Case studies in Phoenix, Arizona, and Hermosillo, Mexico. PECS II, Oaxaca, Mexico

- 2017 Berbés-Blázquez, M., D.M. Iwaniec, E.M. Cook, M.J. Davidson, T.A. Muñoz-Erickson, T. McPhearson, N.B. Grimm. Visions and strategies for guiding urban transformations. PECS II, Oaxaca, Mexico
- 2017 Grimm, N.B., C.L. Redman, M.V. Chester, D.M. Iwaniec, T. McPhearson, T.R. Miller, T.A. Muñoz-Erickson. A social-ecological-technical systems approach to understanding urban complexity and building climate resilience. PECS II, Oaxaca, Mexico
- 2017 Iwaniec, D.M., E.M. Cook, M.J. Davidson, N.B. Grimm. Positives visions of urban transformation and adaptation to climate change. Cities and Climate Conference, Potsdam, Germany
- 2017 Cook, E.M., M. Berbés-Blázquez, M.J. Davidson, N.B. Grimm, D.M. Iwaniec, T. McPhearson, T.A. Muñoz-Erickson. Urban resilience to extreme events participatory future scenarios: 2080 in Harlem, San Juan, and Valdivia. NSF PI Meeting (SRN), Washington DC.
- 2017 Iwaniec, D.M., E.M. Cook, T. McPhearson, T.A. Muñoz-Erickson, M.J. Davidson, M. Berbés-Blázquez, N.B. Grimm. Co-production of sustainability future scenarios. Resilience Conference, Stockholm, Sweden
- 2017 Redman, C.L., N.B. Grimm, M.V. Chester, E.M. Cook, D.M. Iwaniec, T. McPhearson, T.R. Miller, T.A. Muñoz-Erickson. Co-production urban resilience to extreme events. Resilience Conference, Stockholm, Sweden
- 2017 Cook, E.M., D.M. Iwaniec, O. Barbosa, N.B. Grimm. Framing sustainability transformational change as more than just big changes. Resilience Conference, Stockholm, Sweden
- 2017 McPhearson, T., E.M. Cook, C. Cheng, N.B. Grimm, D.M. Iwaniec. Climate resilience in urban social-ecological-technical systems: A SETS approach to urban ecosystem services. Resilience Conference, Stockholm, Sweden
- 2017 Iwaniec, D.M. Climate resilient futures. Urban Studies Institute Research Roundabout (lightning talk), Atlanta, GA
- 2017 Cook, E.M., D.M. Iwaniec, J.R. Sauer, N.B. Grimm, O. Barbosa. Future urban sustainability and resilience in Valdivia, Chile: Assessing social-ecological-technological scenarios with ecosystem services. Ecological Society of America, Portland, OR
- 2017 Sampson, D.A, D.M. Iwaniec, M.J. Davidson, E.M. Cook. Influence of alternative water supply policies on net potable water use. NSF CAP LTER All Scientist Meeting, Phoenix, AZ

- 2017 Davidson, M.J., E.M. Cook, N.B. Grimm, D.M. Iwaniec. Exploring outcomes and assessing tradeoffs of co-developed sustainable future scenarios for the Central Arizona-Phoenix region. NSF CAP LTER All Scientist Meeting, Tempe, AZ
- 2017 Iwaniec, D.M., E.M. Cook, M.J. Davidson, N.B. Grimm. Positives visions of urban transformation and adaptation. International Association for Landscape Ecology, Baltimore, MD
- 2017 Cook, E.M., O. Barbosa, M.J. Davidson, N.B. Grimm, D.M. Iwaniec. Envisioning future urban sustainability and resilience through co-developed social-ecological-technological scenarios. American Association of Geographers, Boston, MA
- 2017 Davidson, M.J., Y. Kim, M. Berbés-Blázquez, E.M. Cook, R.J. Hobbins, D.M. Iwaniec, T.A. Muñoz-Erickson. Assessment of SETS strategies for shaping cities' resilience scenarios. NSF UREx SRN All-Hands Meeting, New York, NY
- 2017 Hobbins, R.J., L. Charli-Joseph, E.M. Cook, E., H. Eakin, D.M. Iwaniec, T.A. Muñoz-Erickson, B. Orr, P. Pajouhesh, K. Wijsman, M.L. Feagan. Problematizing inclusivity within and across the Sustainability Research Network. NSF UREx SRN All-Hands Meeting, New York, NY
- 2016 Iwaniec, D.M., M.V. Chester, N.B. Grimm, C.L. Redman, T. McPhearson, T.R. Miller, T.A. Muñoz-Erickson. Urban Resilience to Extreme Events (UREx). Science Diplomacy Delegation to Cuba, Havana, Cuba
- 2016 Iwaniec, D.M., E.M. Cook, M.J. Davidson, N.B. Grimm, D.A. Sampson. Urban sustainability and resilience scenarios. Ecological Society of America, Fort Lauderdale, FL
- 2016 Sampson, D.A, D.M. Iwaniec, M.J. Davidson. The adaptive sustainable scenario future as simulated using WaterSim. NSF CAP LTER All Scientist Meeting, Tempe, AZ
- 2016 Davidson, M.J., D.M. Iwaniec, E.M. Cook. Developing adaptive, strategic, and transformational scenario futures for Central Arizona. NSF CAP LTER All Scientist Meeting, Tempe, AZ
- 2015 Iwaniec, D.M., E.M. Cook, M.J. Davidson, N.B. Grimm. Sustainable future scenarios for the Central Arizona–Phoenix region. Ecological Society of America, Baltimore, MD
- 2015 Grimm, N.B., C.L. Redman, M.V. Chester, D.M. Iwaniec, T. McPhearson, T.R. Miller, T.A. Muñoz-Erickson. Developing a concept of social-ecological-technological systems to characterize resilience of urban areas and infrastructure to extreme events. Complex Systems Symposium, Tempe, AZ

- 2015 Metson, G.S., J. Compton, D. Cordell, J. Harrison, D.M. Iwaniec. Shaping Future Phosphorus Management Pathways by Understanding the Past and Present. American Geophysical Union, San Francisco, CA
- 2015 Muñoz-Erickson, T.A., N.B. Grimm, C.L. Redman, M.V. Chester, D.M. Iwaniec, T. McPhearson, T.R. Miller. Urban resilience to extremes: A Sustainability Research Network on social-ecological-technological systems. Earth System Governance, Canberra, Australia
- 2015 Banville, M., D.L. Childers, S. Earl, N.B. Grimm, H. Hartnett, D.M. Iwaniec, K. McGraw, M. Nation, M. Palta, N. Weller. Social-ecological dynamics in an arid, rapidly urbanizing region. NSF LTER All Scientist Meeting, Estes Park, CO
- 2015 Iwaniec, D.M., M.J. Davidson, E.M. Cook, N.B. Grimm. Central Arizona–Phoenix LTER and society: Co-development of sustainable future scenarios. NSF LTER All Scientist Meeting, Estes Park, CO
- 2015 Grimm, N.B., C.L. Redman, M.V. Chester, D.M. Iwaniec, T. McPhearson, T.R. Miller, T.A. Muñoz-Erickson. Developing a concept of social-ecological-technological systems to characterize resilience of urban areas and infrastructure to extreme events. Ecología Urbana: Aportes Interdisciplinarios Para la Sustentabilidad Urbana, Santiago, Chile
- 2015 Cook, E.M., D.M. Iwaniec, N.B. Grimm, O. Barbosa. Maximizing urban services provided by green and gray infrastructure to increase future urban sustainability. Ecología Urbana: Aportes Interdisciplinarios Para la Sustentabilidad Urbana, Santiago, Chile
- 2015 Grimm, N.B., C.L. Redman, M.V. Chester, D.M. Iwaniec, T. McPhearson, T.A. Muñoz-Erickson. Developing a concept of social-ecological-technological systems to characterize resilience of urban areas and infrastructure to extreme events. Ecological Society of America, Baltimore, MD
- 2015 Cook, E.M., D.M. Iwaniec, N.B. Grimm, O. Barbosa. Maximizing urban services provided by green and gray infrastructure to increase future urban sustainability. Ecological Society of America, Baltimore, MD
- 2015 Cordell, D., G.S. Metson, D.M. Iwaniec. P-FUTURES: Future Urban Transformations. Faecal Sludge Management Conference, Hanoi, Vietnam
- 2015 Davidson, M.J., D.M. Iwaniec, N.B. Grimm. Developing adaptive, strategic, and transformational scenario futures for Central Arizona. NSF CAP LTER All Scientist Meeting, Tempe, AZ
- 2015 Grimm, N.B., C.L. Redman, M.V. Chester, D.M. Iwaniec, T. McPhearson, T.R. Miller, T.A. Muñoz-Erickson. Urban resilience to extremes: A proposed Sustainability Research Network. NSF CAP LTER All Scientist Meeting, Tempe, AZ

INSTRUCTION, INCLUDING ADVISING

SUPERVISION AND ADVISING

- 2020 – Post Doc Supervisor, NSF SETS Convergence: L. Mannetti. Urban Studies Institute, GSU
- 2020 – Post Doc Supervisor, NSF CAP LTER: D. Proffitt. Julie Ann Wrigley Global Institute of Sustainability, ASU
- 2020 – Advisor, Master of Interdisciplinary Studies: M. Matechak. Urban Studies Institute, GSU
- 2019 – Capstone Paper Advisor, Master of Interdisciplinary Studies: M. Reeves. Urban Studies Institute, GSU
- 2019 – Capstone Paper Advisor, Master of Interdisciplinary Studies: E. Hogan. Urban Studies Institute, GSU
- 2018 – Dissertation Committee Chair: R. Lloyd. Urban Studies Institute, GSU
- 2018 – Advisor, Master of Interdisciplinary Studies: E. Hogan. Urban Studies Institute, GSU
- 2018 – Research Supervisor, Master of Interdisciplinary Studies: S. Gallagher. Urban Studies Institute, GSU
- 2018 – 2020 Post Doc Supervisor, NSF UREx SRN: L. Mannetti. Urban Studies Institute, GSU
- 2018 – 2020 Thesis Committee Chair, N. Muse. An analysis of climate resilience planning in Atlanta, Georgia. Department of Geosciences, GSU
- 2018 – 2019 Post Doc Supervisor, NSF CAP LTER: M. Berbés-Blázquez. Julie Ann Wrigley Global Institute of Sustainability, ASU
- 2018 – 2019 Advisor, Master of Interdisciplinary Studies: T. Troutman. Urban Studies Institute, GSU
- 2017 – 2018 Advisor, NSF Resilient Urban Latin America International Research Experience for Students: A. Shreeves. Department of Geosciences, GSU
- 2016 – 2018 Post Doc Supervisor, NSF UREx SRN: M. Berbés-Blázquez. Julie Ann Wrigley Global Institute of Sustainability, ASU
- 2013 – 2016 Thesis Committee Member: R.J. Hobbins. Scenario planning for sustainable dark skies. Department of Community Resources & Development, ASU
- 2013 – 2015 Thesis Committee Member: M.J. Davidson. Developing adaptive, strategic, and transformational scenario futures for Central Arizona-Phoenix. School of Sustainability, ASU

TEACHING

- 2019 Urban Environments (URB 8060 / URB 4060 / GEOS 6020 / GEOG 4020, Fall 2019), GSU
- 2019 The Interdisciplinary City (URB 8097 / URB 4097, Spring 2019), GSU
- 2018 Urban Environments (URB 8060 / URB 4060 / GEOS 6020 / GEOG 4020, Fall 2018), GSU
- 2018 Urban Environments (URB 8060 / URB 4060 / GEOS 6020 / GEOG 4020, Spring 2018), GSU
- 2018 Urban Resilience Design Studio (GEOS 6097 / GEOL 4097 / GEOG 4097, Spring 2018), GSU
- 2013 Sustainable Ecosystems (SOS 326, Fall 2013), ASU
- 2012 Sustainable Ecosystems (SOS 326, Fall 2012), ASU
- 2011 Sustainable Ecosystems II (SOS 535, Fall 2011), ASU
- 2010 Sustainability Methodology (SOS 511: Fall 2010), ASU
- 2009 Systems Thinking in Sustainability (GPSS-GLI: Summer 2009), University of Tokyo
- 2007 Ecosystem Ecology Lab (PCB 3043L, Spring 2007), FIU
- 2007 Ecosystem Ecology Lab (PCB 3043L, Fall 2007), FIU
- 2006 Ecosystem Ecology Lab (PCB 3043L, Spring 2006), FIU
- 2006 Ecosystem Ecology Lab (PCB 3043L, Fall 2006), FIU

SERVICE

SERVICE ACTIVITIES INTERNAL TO THE UNIVERSITY

- 2019 – Member: Faculty Affairs Committee, Andrew Young School of Policy Studies, GSU
- 2019 – Member: Faculty Appeals Committee, Andrew Young School of Policy Studies, GSU
- 2019 – 2020 Chair: Search Committee (Environmental Sustainability), Urban Studies Institute, GSU
- 2019 Panelist: Research Grant Training Workshop, University Research Services and Administration, GSU

- 2018 – University Representative and Strand Lead: Building Smart Resilient Cities, Coalition of Urban Serving Universities, GSU
- 2018 – Member: Graduate Admission Committee, Urban Studies Institute, GSU
- 2018 – Member: Degree Programs Committee, Urban Studies Institute, GSU
- 2018 – Faculty Affiliate: Department of Geoscience, GSU
- 2018 – Faculty Affiliate: Department of Sociology, GSU
- 2018 – 2019 Member: Policy in the Digital World Task Force, Andrew Young School of Policy Studies, GSU
- 2018 – 2019 Member: Search Committee (Sustainable Urban Systems), Urban Studies Institute, GSU
- 2018 Member: Geosciences-NSF EAR Visit, Ad hoc Committee, Department of Geosciences, GSU
- 2017 – 2018 Member: Curriculum Development Committee, Urban Studies Institute, GSU
- 2017 – 2018 Co-chair: Speaker Series Committee, Urban Studies Institute, GSU

SERVICE ACTIVITIES IN ACADEMIC AND PROFESSIONAL ORGANIZATIONS

- 2020 – Vice Co-chair: US-NSF LTER Representative to International Long Term Ecological Research (ILTER) Network
- 2019 – Editor: Resilient Urban Futures, The Urban Book Series, ISSN: 2365-757X, Springer-Nature
- 2019 – Member: Conference Organizing Committee, NSF SRN Urban Resilience to Extreme Events All-Hands Meeting (international conference)
- 2019 – Research Program Lead: Beyond Carbon Working Group, Drawdown Georgia (transdisciplinary research team)
- 2019 Review Panelist: 2019 Stories of The Nature of Cities Prize, *The Nature of Cities*
- 2019 Member: Positive Futures Task Force, Stockholm Resilience Centre/ Wallenberg, Stanford University (international, transdisciplinary research team)
- 2018 – Member: Research Committee, United Nations University Regional Centres of Expertise: Greater Atlanta
- 2018 – Member: US-NSF LTER Representative to ILTER Network
- 2018 – Member: City of Atlanta Urban Ecology Framework Technical Advisory Committee, Atlanta, GA

- 2018 – Research Program Lead: Futures and Scenarios Interdisciplinary Research Theme (IRT), NSF CAP LTER, ASU, Tempe, AZ (transdisciplinary research team)
- 2018 – 2019 Member: Conference Organizing Committee, NSF SRN Urban Resilience to Extreme Events All-Hands Meeting (international conference)
- 2018 Session Chair: Co-producing Urban Resilience to Extreme Events, IFoU: Reframing Urban Resilience Implementation: Aligning Sustainability and Resilience, Barcelona, Spain
- 2018 Workshop Co-lead: Understanding and responding to extreme weather events in ecosystems and social-ecological-technological systems, NSF LTER All Scientists Meeting, Asilomar, CA
- 2018 Workshop Co-lead: LTER scenarios, NSF LTER All Scientists Meeting, Asilomar, CA
- 2018 Panelist: Scholars Philanthropy Program, Community Foundation, Atlanta, GA
- 2017 – Member: Seeds of a Good Anthropocene, Stockholm Resilience Centre, Stockholm, Sweden (international research team)
- 2017 – 2018 Member: Conference Organizing Committee, NSF SRN Urban Resilience to Extreme Events All-Hands Meeting (international conference)
- 2017 Session Chair: Visioning urban transformations, Cities and Climate, Potsdam, Germany
- 2016 – 2017 Member: Transdisciplinary Food-Energy-Water Design Team, Transdisciplinary workshop to advance NSF-Belmont Forum’s collaborative research action on urbanization and the food-energy-water nexus, Boulder, CO (international research team)
- 2016 Delegate: ASU Science Diplomacy Delegation to Cuba, Havana, Cuba
- 2015 – Member: Leadership Team, NSF CAP LTER, ASU, Tempe, AZ
- 2015 – Research Program Lead: Scenarios Working Group, NSF UREx SRN (international, transdisciplinary research team)
- 2015 – Member: Executive Management Team, NSF UREx SRN (international, transdisciplinary research team)
- 2015 Member: Transformative Knowledge Network, International Social Science Council, Durban, South Africa (international research team)
- 2014 – Research Program Lead: Sustainable Futures Scenarios, Julie Ann Wrigley Global Institute of Sustainability, ASU, Tempe, AZ (transdisciplinary research team)

- 2014 – 2017 Research Program Lead: Urban Futures Working Group, NSF Urban Sustainability Research Coordination Network (international research team)
- 2013 Director: Graduates in Integrative Society and Environment Research, ASU, Tempe, AZ (international research team)
- 2013 Research Program Lead: Urban Flux and Flows Working Group, NSF Urban Sustainability Research Coordination Network (international synthesis team)
- 2011 Co-chair: Conference Organizing Committee, Sustainable Phosphorus Summit (international conference)
- 2009 Workshop Co-organizer: Identifying the Benefits and Barriers to Cross-site Socio-Ecological Research in Urban Systems. NSF LTER All Scientists Meeting, Estes Park, CO
- 2009 Co-chair: Conference Organizing Committee, Annual Conference for Sustainability IGERTs, Tempe, AZ