

Zoé A. Hamstead

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EDUCATION

- 2016 **PhD in Urban and Public Policy**
THE NEW SCHOOL, New York, NY
Dissertation: A spatial-temporal approach for understanding social-ecological dynamics of urban landscapes and social equity in New York City.
- 2014 **MPhil in Urban and Public Policy** (honors)
THE NEW SCHOOL, New York, NY
- 2008 **Master's in City and Regional Planning**
UNIVERSITY OF NORTH CAROLINA, Chapel Hill, NC
Thesis: Overcompliance in water quality trading programs: findings from a qualitative case study in North Carolina.
- 2003 **BA in Liberal Arts**
ST. JOHN'S COLLEGE, ANNAPOLIS, MD
Majors in philosophy and history of mathematics.

SELECTED EMPLOYMENT HISTORY

- 2021– **Assistant Professor**
Department of City & Regional Planning, University of California-Berkeley
- 2016 – 2021 **Assistant Professor**, Environmental Planning
Department of Urban and Regional Planning, University at Buffalo
- 2016 - **RENEW Institute Faculty**, Research and Education in Energy, Environment and Water, University at Buffalo
- 2015-2016 **Geographic Information Systems Consultant**
WE ACT FOR ENVIRONMENTAL JUSTICE &
NATURAL RESOURCES DEFENSE COUNCIL, New York NY
- 2015 **Research Assistant**
URBAN ECOLOGY LAB, DR. TIMON MCPHEARSON, THE NEW SCHOOL, New York NY
- 2011-2014 **Research Assistant**
TISHMAN ENVIRONMENT & DESIGN CENTER, THE NEW SCHOOL, New York NY

Last updated: August 2021

- 2012 **Consulting Statistician**
NEW YORK CITY OFFICE OF THE PUBLIC ADVOCATE, New York, NY
- 2009-2010 **Education and Editorial Associate**
AMERICAN PLANNING ASSOCIATION, Chicago, IL
- 2008-2009 **Associate Local Government Planning Consultant**
CLARION ASSOCIATES, Chapel Hill, NC
- 2007-2008 **Research Assistant**
INSTITUTE FOR THE ENVIRONMENT, UNIV. OF NORTH CAROLINA, Chapel Hill, NC
- 2006-2007 **Research Assistant**
CENTER FOR URBAN AND REGIONAL STUDIES, UNIV. OF NORTH CAROLINA,
Chapel Hill, NC

FELLOWSHIPS & AWARDS

- 2014-2016 **Science to Achieve Results (STAR) Fellowship**
U.S. ENVIRONMENTAL PROTECTION AGENCY
Dissertation fellowship. Funded \$84,000.
- 2010-2011 **Integrative Graduate Education and Research Traineeship (IGERT) Fellowship**
NATIONAL SCIENCE FOUNDATION
Doctoral fellowship. Funded \$47,000.
- 2010-2011 **Louis Coker Master's Thesis Award**
UNIVERSITY OF NORTH CAROLINA – Chapel Hill

PROFESSIONAL MEMBERSHIP

Member, Association of Collegiate Schools of Planning
Member, American Planning Association
Member, Association of American Geographers
Member, Ecosystem Services Partnership
Member, Ecological Society of America

SERVICE

University

Faculty Senator, 2018-2021.

Lead, Research and Education in Energy, Environment and Water (RENEW) Sustainable Urban Environments Focus Group, 2019-present.

Last updated: August 2021

Seed Grant Panel Reviewer, Research and Education in Energy, Environment and Water (RENEW), 2017.

Hiring Committee Member for Planning & Policy Scientist Research and Education in Energy, Environment and Water (RENEW), 2017.

Editorial & Review

Ambio: A journal of the Human Environment (2)

Cities and the Environment (CATE) (1)

Earths Future (2)

Ecological Indicators (2)

Environmental Science & Policy (1)

Environment and Planning B: Planning and Design (1)

Environment and Planning C: Government and Policy (1)

Journal of Planning Education and Research (1)

Journal of Urban Management (1)

Landscape and Urban Planning (2)

PLOS One (1)

Progress in Physical Geography (1)

Remote Sensing of the Environment (2)

Sustainability (2)

Urban Climate (1)

Urban Ecosystems (2)

Urban Management (1)

Professional

Lead Editor, *Resilient Urban Futures*, co-edited *Springer Urban Book Series* volume, 2019-present.

Guest Editor of Special Issue: *Heat-As-Hazard*, *Journal of Extreme Events*, 2019-2020.

Committee Chair, Pre-doctoral Workshop for Underrepresented Students of Color, Association of Collegiate Schools of Planning & University at Buffalo, 2018.

Steering Committee Member, [Leveraging We Are Still In](#) strategy to amplify higher education community climate change partnerships, 2018.

Community

Advisory Committee Member, Climate Smart Communities City of Buffalo, New York, 2019-2020.

Board Member, Buffalo Niagara River Land Trust, Buffalo, New York, 2018-2020.

Buffalo Sewer Authority Green Infrastructure Advisory Committee, 2018-2019.

Facilitator, Climate Justice Visioning Workshop, WE ACT for Environmental Justice, Harlem, New York City, USA, 2017.

School

Co-author SUNY Empire Innovation Program cluster hire proposal on behalf of School of Architecture and Planning, 2019.

Curatorial Committee Member, 2017.

Department

Masters of City Planning Program Committee Member, 2021-

Environmental Planning Specialization Director, 2018-2021.

Co-coordinator responsible for admissions, Masters of Urban Planning program, 2018-2021.

Faculty Search Committee Member, 2019-2000

Planning Chair Search Committee Member, 2017.

Korean-American Curriculum Development Committee Member, 2016.

COURSES TAUGHT

Guest Lecturer

RUHR-UNIVERSITÄT BOCHUM, Bochum International Seminar on the Transformation of Urban Landscapes, Bochum, Germany

Summer 2021 Urban Climate & Environmental Justice (graduate-level; 9 students; 6 credits)

Assistant Professor

URBAN & REGIONAL PLANNING, UNIVERSITY AT BUFFALO, Buffalo, NY

Spring 2021 Economic Concepts & Contexts (master's level; 36 students; 3 credits)

Fall 2020 Environmental Planning & Policy Seminar (master's-level; 16 students; 3 credits)

Urban Environmental Planning Studio. *Livability in the Face of Climate Change: Opportunities for Climate Health Equity in Buffalo's Near East Side* (master's level; 9 students; 6 credits)

Spring 2020 Environmental Planning & Policy Seminar (master's-level; 16 students; 3 credits)

Economic Concepts & Contexts (master's level; 38 students; 3 credits)

Spring 2019 Environmental Planning & Policy Seminar (master's-level; 7 students; 3 credits)

Economic Concepts & Contexts (master's level; 26 students; 3 credits)

Fall 2018 Sustainable Urban Environments (undergraduate-level; 30 students; 3 credits)

Spring 2018 Urban Ecology Planning Studio. *Engaged Solar Planning in Buffalo's Northland Corridor* (master's-level; 10 students; 6 credits)

Last updated: August 2021

	Environmental Planning & Policy Seminar (master's-level; 8 students; 3 credits)
Fall 2017	Sustainable Urban Environments: Environmental Justice (undergraduate-level; 26 students; 3 credits)
Spring 2017	Urban Ecology Planning Studio. <i>Assessing the potential for fostering regenerative urbanism in Buffalo's vacant land</i> (master's-level; 9 students; 6 credits)
Fall 2016	Environmental Planning & Policy Seminar (master's-level; 17 students; 3 credits)

Teaching Fellow (instructor of record)

ENVIRONMENTAL STUDIES, THE NEW SCHOOL, NEW YORK, NY

Fall 2015	Spatial Thinking with Geographic Information Systems (undergraduate-level; 12 students; 3 credits)
Fall 2014	Spatial Thinking with Geographic Information Systems (undergraduate-level; 12 students; 3 credits)

Teaching Assistant

ENVIRONMENTAL STUDIES, THE NEW SCHOOL, New York, NY

Spring 2014	Environmental Economics (undergraduate-level; 3 credits)
Spring 2014	Politics and Biodiversity (undergraduate-level; 3 credits)
Fall 2013	Spatial Thinking with Geographic Information Systems (undergraduate-level; 3 credits)

RESEARCH SUPERVISION

Graduate Student Thesis Committees

University at Buffalo Urban and Regional Planning Doctoral Program

Herbert Wang, Dissertation Committee Member, 2020 – present.

Smitha Gopalakrishnan, "Implementation of Green Infrastructure for Stormwater Management in Cities: Cases in New Hampshire's Piscataqua Watershed. Dissertation Committee Member 2016 – 2021.

Tu Dam Ngoc Le, "Climate change adaptation in coastal cities of developing countries : An examination of municipal climate action plans. " Dissertation Committee Member, 2016 – 2019.

University at Buffalo Master of Urban and Regional Planning

Nicole Little (Dual M.Arch/MUP student) "Building Future + Buildings' Futures: Sustainable Vision Planning and Transformative Narratives for an Equitable and Just Built Environment in Buffalo's Fruit Belt Neighborhood." Thesis Planning Chair, 2019-2020.

Dylan Burns (Dual M.Arch/MUP student), "Forever Home: Sustainable, Inclusive and Affordable Housing." Thesis Chair, 2018-2020.

Last updated: August 2021

David Riley (MUP student), "Place-based storytelling as a basis for community development." Thesis Chair, 2017-2018.

Ramanditya Wimbardana Wimbadi (MUP student), "The role of transnational municipal network in strengthening urban governance towards low carbon development in the City of Bogor, Indonesia." Thesis Chair, 2016-2017.

Ninuk Setyowati (MUP student), "The impact of waterfront redevelopment on housing values: The case of Canalside Buffalo waterfront." Thesis Chair, 2016-2017.

Michael Tuzzo (Dual M.Arch/MUP Thesis), "Environment, equity or economic development? Reconnecting planning and design priorities in Buffalo neighborhoods", Committee Member, 2016-2017.

Jared Parylo (Dual M.Arch/MUP student), "The Blackrock Yard: Reconsidering transitional landscapes of infrastructure." Advisor, 2016-2017.

Independent Studies

James Pollard (Doctoral Candidate in Media Study), Virtual Reality Representation of Climate Change, 2020.

Emily Moll (MUP student), 2019

Allison Smith (END undergraduate student), 2018.

Lauren Darcy (MUP student), "Wastewater infrastructure in Scajaquada Creek headwaters communities", for Buffalo Niagara Waterkeeper, 2017.

Michael Tuzzo (Dual M.Arch/MUP student), "Environment, equity or economic development? Reconnecting planning and design priorities in Buffalo neighborhoods, 2016-2017.

GRANT SUPPORT

Funded Grants

As Principal Investigator, Co-Investigator or Senior Personnel (\$284,648 to UB Architecture & Planning)

2020 Subawardee with PI William Goetzler. "Equitable Access to Cooling in New York City under a Changing Climate," New York State Energy and Research Development Authority. **Funded: \$20,000.**

2019-present Subawardee with PI Laura Evans. Evaluation of PUSH-Green, a Community-based energy efficiency and weatherization program in Buffalo, New York. Health and Climate Solutions, Robert Wood Johnson Foundation. **Funded: \$ 29,970** subaward via People United for Sustainable Housing. **Total award: \$328,349.**

Last updated: August 2021

- 2018-present Subawardee with PIs Charles Redman and Nancy Grimm. Urban Resilience to Extreme Weather-Related Events/Subaward: "Urban Resilience to Extremes: Urban Heat." Sustainability Research Network, National Science Foundation, **Funded: \$ 87,054** subaward via Arizona State University. **Total Award: \$ 11,999,629**
- 2017-2018 **Co-Investigator** with PI Paul Coseo and Co-Is Ariane Middel, David Hondula & Nicholas Rajkovich. "Building Capacity for Smart & Connected Management of Thermal Extremes." Smart & Connected Communities Planning Grant, National Science Foundation. **Funded \$ 47,757** subaward via Arizona State University. **Total Award: \$100,000.**
- 2017-19 **Principal Investigator**, with Co-Is Nicholas Rajkovich, Zachary Schlader & Susan Clark. "Developing thermal extreme indicators for vulnerability assessment & climate adaptation." Research and Education in Energy, Environment and Water (RENEW) Institute Seed Grant, University at Buffalo. **Funded \$34,706.**
- 2017-2018 **Co-Principal Investigator** with PI Zhenduo Zhu and Co-Is Shawn Matott and Alan Rabideau. "Integrated decision support for urban land use, green infrastructure, and stormwater management. Research and Education in Energy, Environment and Water (RENEW) Institute Seed Grant, University at Buffalo **Funded \$34,979.**
- 2017-2018 **Co-Principal Investigator** with PI Estelle Chaussard Co-I Kallol Sett. "Towards improving the sustainability of urban infrastructures and groundwater usage in growing cities." Research and Education in Energy, Environment and Water (RENEW) Institute Seed Grant, University at Buffalo. **Funded \$30,182.**
- 2016 **Co- Investigator** with PI Marie Donahue. Travel Funding for workshop on hacking and computation for socio-environmental synthesis. Socio-Environmental Synthesis Center (SESYNC). Annapolis, Maryland.
- 2015 **Senior Personnel** with PI Timon McPhearson. "Turning vacant acres into community resources. Civic engagement course design and instruction. The New School Office of the Provost Civic Engagement Fund. **Funded \$5,990.**

PUBLICATIONS

Edited Volume

Hamstead, Zoé A., David Iwaniec, Timon McPhearson, Marta Berbés-Blázquez, Elizabeth Cook, Tischa A. Muñoz-Erickson. 2021. Resilient Urban Futures. *Springer Urban Book Series*. ISBN 978-3-030-63131-4 <https://link.springer.com/book/10.1007%2F978-3-030-63131-4>

Refereed Journal Articles

*Lead author listed first

Hamstead Zoé A., Paul Coseo, Saud AlKhaled, Emmanuel Frimpong Boamah, David M. Hondula, Ariane Middel, and Nicholas Rajkovich. 2020. Thermally-resilient communities: creating a sociotechnical collaborative response to extreme temperatures. Special Issue: Climate Justice: The Role of the Built Environment, in *Buildings and Cities*, 1(1),pp. 218-232. <https://doi.org/10.5334/bc.15>

Hamstead Zoé A. and Paul Coseo. 2019. Critical Heat Studies: Making Meaning for Management of Heat-as-Hazard in the 21st Century: Introduction to the Special Issue. *Journal of Extreme Events*, Special Issue on *Heat-as-Hazard*. Vol. 6, No.4. DOI: 10.1142/S2345737620030013 <https://www.worldscientific.com/doi/pdf/10.1142/S2345737620030013>

Inostroza, Luis, **Zoé Hamstead**, Marcin Spyra, Salman Qhreshi. 2019. Beyond urban–rural dichotomies: Measuring urbanisation degrees in central European landscapes using the technomass as an explicit indicator. *Ecological Indicators*, 96(September 2018), 466–476. <http://doi.org/10.1016/j.ecolind.2018.09.028>

Hamstead, Zoé A., Carson Farmer, Timon McPhearson. 2018. Landscape-based extreme heat vulnerability assessment. *Journal of Extreme Events*. 5(4): 1850018-1-1850018-23. <https://doi.org/10.1142/S2345737618500185>

Hamstead, Zoé A., David Fisher, Rositsa Ilieva, Spencer Wood, Timon McPhearson, Peleg Kremer. 2018. Geolocated social media as a rapid indicator of park visitation and equitable park access. *Computers, Environment and Urban Systems* Special Issue: *Human dynamics in the mobile and big data era: Towards smart and connected communities*. 72:38-50 <https://doi.org/10.1016/j.compenvurbsys.2018.01.007>

Donahue, Marie L., Bonnie L. Keeler, Spencer A. Wood, David M. Fisher, **Zoé A. Hamstead**, Timon McPhearson. 2018. Using social media to understand drivers of urban park visitation in the Twin Cities, MN. *Landscape and Urban Planning*. 175: 1-10. <https://doi.org/10.1016/j.landurbplan.2018.02.006>

Kremer, Peleg, **Zoé Hamstead**, Dagmar Haase, Timon McPhearson, Niki Frantzeskaki, Erik Andersson, Nadja Kabisch, Neele Larondelle, Emily Rall, Annette Voigt, Francsc Baró, Christine Bertram, Erik Gómez-Baggethun, Rieke Hansen, Anna Kaczorowska, Jain-Henrik

- Kain, Jakub Kronenberg, Johannes Langemeyer, Stephan Pauleit, Katrin Rehdanz, Maria Schewenius, Chantal van Ham, Daniel Wurster, Thomas Elmqvist. 2016. Key insights for the future of urban ecosystem services research. *Ecology & Society*. Vol. 21, Iss. 29. doi:10.5751/ES-08445-210229
- Kremer, Peleg, **Zoé A. Hamstead**, McPhearson, Timon. 2016. The value of urban ecosystem services in New York City: A spatially explicit multicriteria analysis of landscape scale valuation scenarios. *Environmental Science & Policy* 62: 57–68. doi:10.1016/j.envsci.2016.04.012
- Hamstead, Zoé A.**, Peleg Kremer, Neele Larondelle, Timon McPhearson and Dagmar Haase. 2016. Classification of the heterogeneous structure of urban landscapes (STURLA) as an indicator of landscape function applied to surface temperature in New York City. *Ecological Indicators*. Available at: <http://dx.doi.org/10.1016/j.ecolind.2015.10.014>
- Kremer, Peleg & **Zoé Hamstead**. 2015. Transformation of urban vacant lots for the common good: An introduction to the special issue. *Cities and the Environment (CATE)*: Vol. 8, Iss. 2, Article 1. Available at: <http://digitalcommons.lmu.edu/cate/vol8/iss2/1>
- Larondelle, Neele, **Zoé Hamstead**, Peleg Kremer, Dagmar Haase, Timon McPhearson. 2014. Applying a novel urban structure classification to compare relationships of urban structure and land surface temperature in Berlin and New York. *Applied Geography* 53: 427-437. doi: 10.1016/j.apgeog.2014.07.004
- McPhearson, Timon, **Zoé Hamstead**, Peleg Kremer. 2014. Urban ecosystem services for resilience planning and management in New York City. *Ambio: A journal of the human environment* 43:502-515. doi: 10.1007/s13280-014-0509-8
- Haase, Dagmar, Neele Larondelle, Erik Andersson, Martina Artmann, Sara Borgström, Jürgen Brueste, Erik Gómez-Baggethun, Åsa Gren, **Zoé Hamstead**, Rieke Hansen, Nadja Kabisch, Peleg Kremer, Johannes Langemeyer, Emily Lorange Rall, Timon McPhearson, Stephan Pauleit, Salman Qureshi, Nina Schwarz, Annette Voigt, Daniel Wurster, Thomas Elmqvist*. 2014. A quantitative review of urban ecosystem service assessments: Concepts, models and implementation. *Ambio: A journal of the human environment* 43:413-433.
- Kremer, Peleg, **Zoé Hamstead** and Timon McPhearson. 2013. A Social-Ecological Assessment of Vacant Lots in New York City. *Landscape and Urban Planning* 120: 218-233. doi: 10.1007/s13280-014-0504-0
- McPhearson, Timon, Peleg Kremer and **Zoé Hamstead**. 2013. Mapping Ecosystem Services in New York City: Applying a Social-Ecological Approach in Urban Vacant Land. *Ecosystem Services* 5:11-26. doi: 10.1016/j.ecoser.2013.06.005
- Hamstead, Zoé A.** and Todd BenDor. 2010. Over-compliance in Water Quality Trading Programs: Findings from a Qualitative Case Study in North Carolina. *Environment and Planning C: Government and Policy* 28(1): 1-17. doi: 10.1068/c0887j

Book Chapters and Reports

Hamstead, Zoé A. 2021. How we got here: Producing climate inequity and vulnerability to urban weather extremes, in *Resilient Urban Futures*. Eds. Hamstead, Zoé A., David Iwaniec, Timon McPhearson, Marta Berbés-Blázquez, Elizabeth Cook, Tischa A. Muñoz-Erickson. (eds) The Urban Book Series. Springer, Cham. https://doi.org/10.1007/978-3-030-63131-4_2

Hamstead, Zoé A. and Jason Sauer. 2021. Mapping vulnerability to weather extremes: Heat and flood assessment approaches, in *Resilient Urban Futures*. Eds. Hamstead, Zoé A., David Iwaniec, Timon McPhearson, Marta Berbés-Blázquez, Elizabeth Cook, Tischa A. Muñoz-Erickson. (eds) The Urban Book Series. Springer, Cham. https://doi.org/10.1007/978-3-030-63131-4_4

McPhearson, Timon, David Iwaniec, **Zoé A. Hamstead**, Marta Berbés-Blázquez, Elizabeth Cook, Tischa A. Muñoz-Erickson, Lelani Mannetti, Nancy Grimm. 2021. A Vision for Resilient Urban Futures. in *Resilient Urban Futures*. Hamstead, Zoé A., David Iwaniec, Timon McPhearson, Marta Berbés-Blázquez, Elizabeth Cook, Tischa A. Muñoz-Erickson. (eds) The Urban Book Series. Springer, Cham. https://doi.org/10.1007/978-3-030-63131-4_12

Hamstead, Zoé A., & Paul Coseo. 2020. Weathering the Storm: Building Policies, Plans, and Cities to Mitigate Extreme Events, in *Transforming Global Health: Interdisciplinary Challenges, Perspectives & Strategies*. Eds. Pavani K. Ram & Korydon Smith. (pp. 261-283). Springer Nature Switzerland.

Gomez-Baggethun, Erik, Åsa Gren, David N. Barton, Johannes Langemeyer, Timon McPhearson, Patrick O'Farrell, **Zoé Hamstead**, Peleg Kremer 2013. Urban ecosystem services. In T. Elmqvist, M. Fragkias, J. Goodness, B. Guneralp, P. J. Marcotullio, R. . McDonald, ... C. Winkinson (Eds.), *Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities* (pp. 175–251). Springer Netherlands.

Publications in Progress

Hamstead, Zoé A., David Hondula, Lance Watkins, Christopher K. Wyczalkowski, and Luis Ortiz. Heat Exposures of Historically disenfranchised populations of the United States. To be submitted to *PNAS*.

Hamstead, Zoé A. Critical Heat Studies: Deconstructing the invisibility of thermal insecurity. To be submitted to *Urban Studies*.

Hamstead, Zoé A. A Review of Environmental Justice in Urban Planning Literature. To be submitted to *Journal of Planning Education and Research*.

Hamstead, Zoé A., Elizabeth Cook, Drew Canfield, and Timon McPhearson. Vulnerability to Extreme Heat: A cross-city comparison of landscape-based exposure indicators. To be submitted to PLOS One.

Hamstead, Zoé A., Grace DeSantis, Nicholas Rajkovich, Susan Clark, and Zachary Schlader. Connecting outdoor and indoor micro-climates with thermal experiences: a mixed-methods case study in Buffalo, New York. To be submitted to the *Journal of Planning Education and Research*.

Popular Media (non-peer reviewed)

Dave Hondula, Paul Iñiguez, **Zoé Hamstead** & Nicholas B. Rajkovich. 2018 Feb 11. [An unlikely climate collaboration](#). Medium.

Hamstead, Zoé & Ryan McPherson. 2017 July 05. [Building a local and integrated energy future: Brownfields to brightgreenfields](#). *The Nature of Cities*.

Hamstead, Zoé, Timon McPhearson & Adam Glenn. 2017 December 07. [Climate resilience means meaningfully engaging vulnerable communities in urban planning processes](#). *The Nature of Cities*.

Hamstead, Zoé. 2016 September 14. [How we can use climate action planning to beat the heat](#). WE ACT for Environmental Justice, Medium.

INVITED TALKS (* presenter)

Hamstead, Zoé*. June, 2021. Seeing Heat Inequity. Centre for Crisis Studies and Mitigation, University of Manchester, United Kingdom.

Hamstead, Zoé*. August, 2020. Climate Justice & Health. *People United for Sustainable Housing (PUSH)*. Livestream Webinar on the West Side Energy Roadmap. Buffalo, New York.

Hamstead, Zoé*. August, 2019. Urban Climate Change. *College of Engineering Trivandrum*. Trivandrum, India.

Hamstead, Zoé*. May, 2019. Community Resilience Lab. *Faculty Address to New York State Legislators*. State University of New York Chancellor's Reception. Albany, New York, USA.

Hamstead, Zoé*. May, 2019. Overheating in a Cold Climate?: Research and practice pathways for conceptualizing climate justice in Buffalo. *Western New York Meteorological Society*. Buffalo, New York, USA.

Hamstead, Zoé*. March, 2019. Overheated: Environmental Justice in a Warming World. *Urban Climate Research Center* at Arizona State University. Tempe, Arizona, USA.

Hamstead, Zoé*. October, 2018. Thermally-Comfortable Communities. Sustainable Cities Congress organized by the *Institute for Sustainability, Energy and Environment at University of Illinois Urbana-Champaign*. Champaign, Illinois, USA.

Hamstead, Zoé*. July, 2018. Thermal extremes vulnerability and management: A research effort that engages academics, public agencies and public participation. Low Income Forum on Energy Steering Committee Meeting organized by the *New York State Energy Research & Development Authority*. Albany, New York, USA.

Hamstead, Zoé*, Eric Walker & Josh Wilson. May, 2018. Health & Energy Research in Practice: Thermal extremes vulnerability and management. Low Income Forum on Energy Conference organized by the *New York State Energy Research & Development Authority*. Albany, New York, USA.

Walker, Eric* & **Zoé Hamstead***. December, 2017. Forming & Norming collaborative research/practice for thermal management. *Smart Cities Workshop* organized by National Science Foundation Smart & Connected Communities and Rafik Hariri Institute, Boston University. Washington, D.C., USA.

Hamstead, Zoé*. September, 2017. Collaborative climate planning in urban communities. Adirondack Mountain Club. Buffalo, New York, USA.

Hamstead, Zoé*. May, 2016. Vulnerability to extreme heat in cities: Geographic patterns of exposures and health-related sensitivities. Climate & Health Program, Mailman School of Public Health, Columbia University, New York, New York, USA.

Hamstead, Zoé*. January, 2016. Changing landscapes and rising temperatures in New York City: Examining social-ecological dynamics of urban resilience and vulnerability to extreme climate events. Department of Urban and Regional Planning, Buffalo School of Architecture and Planning, State University of New York, Buffalo, New York, USA.

Hamstead, Zoé*, Timon McPhearson, Carson Farmer and Aurash Khawarзад. January, 2016. Resilience & vulnerability to heat waves in New York City: Exposure, susceptibility and coping capacities. 1st Annual National Science Foundation Urban Resilience to Extremes Sustainable Research Network Meeting. Arizona State University, Tempe, Arizona, USA. (Poster presentation)

McPhearson, Timon* and **Zoé Hamstead***. January, 2016. Social media and other big data for advancing a systems understanding of benefits of urban green space. Science of the Living City Seminar Series, New York City Urban Field Station, U.S. Forest Service, New York, New York, USA.

Hamstead, Zoé*. November, 2015. Changing landscapes and rising temperatures in New York City: Understanding urban vulnerability to socio-natural hazards. Environmental Studies and Sciences Department, Santa Clara University, Santa Clara, California, USA.

Larondelle, Neele*, **Zoé Hamstead***, Peleg Kremer, Dagmar Haase, and Timon McPhearson. November, 2013. A generic land-use classification: Relating urban form to ecological function. *2nd Annual URBES Workshop*. Universitat Autònoma de Barcelona, Spain.

Hamstead, Zoé*. March, 2013. Classification for cross-city Comparison: Parameterization of service providing units for local climate regulation. *2nd Annual URBES Meeting*. Technische Universität München, Freising, Germany.

Hamstead, Zoé*. November, 2012. Urban ecology and health: Integrating the emerging science of urban ecosystem services with built environment and health research. Humboldt University, Berlin, Germany.

McPhearson, Timon*, Peleg Kremer and **Zoé Hamstead**. January, 2012. Non-economic valuation of urban ecosystem services in the New York City Social-Ecological System. *1st Annual URBES Meeting*, Stockholm Resilience Centre and Beijer Institute for Ecological Economics, Stockholm, Sweden.

McPhearson, Timon*, Peleg Kremer, and **Zoé Hamstead**. October, 2011. The New York City Social-Ecological System: An Urban Biosphere Approach to Ecosystem Service Assessment. ICLEI/UNESCO sponsored, *Urban Biosphere (URBIS) Workshop*, UNESCO, United Nations, New York, New York, USA.

CONFERENCE ACTIVITY AND PARTICIPATION

Sessions Organized

Session Chair and Co-organizer. March 2018, Future Scenarios of Urban Extreme Events. *American Association of Geographers Annual Meeting*. New Orleans, Louisiana.

Co-organizer. November 2015, Urban Complexity Workshop, *8th Annual Conference of the Ecosystem Services Partnership*, South Africa.

Session Chair and Co-organizer. November 2014, Urban ecosystem services: Linking research and governance for sustainability Workshop, *7th Annual Conference of the Ecosystem Services Partnership*, Costa Rica.

Papers Presented

Hamstead, Zoé*. Heat equity and thermal management. October, 2020. *Associated Collegiate Schools of Planning*. Toronto, Ontario.

Hamstead, Zoé* and Elizabeth Cook. Urban Landscape Metrics and Heat Vulnerability. July, 2019. *International Association of Landscape Ecology*. Milan, Italy.

Coseo, Paul*, **Zoé Hamstead***, Nicholas Rajkovich* & Vivek Shandas*. October, 2018. Environmental Planning Frameworks for Thermal Extremes: Building Capacity for a Smart &

Connected Approach to Creating more Comfortable Cities. (Roundtable Discussion.) *Association of Collegiate Schools of Planning*. Buffalo, New York, USA.

Hamstead, Zoé*, Susan Clark, Paul Coseo*, Nicholas Rajkovich*, David Hondula* & Ariane Middel*. June, 2018. Resilient Infrastructure Systems for Managing Temperature Extremes. (Panel Participation) *International Symposium on Sustainable Systems and Technology*. Buffalo, New York, USA.

Hamstead, Zoé*. March, 2018. Geolocated social media as a rapid indicator of park visitation and equitable park access. *American Association of Geographers Annual Meeting*. New Orleans, Louisiana.

Hamstead, Zoé*, Zhenduo Zhu, Shawn Matott and Alan Rabideau. October, 2017. Integrated decision support for vacant land reuse. *Association of Collegiate Schools of Planning*. Denver, Colorado, USA.

Hamstead, Zoé*. April, 2017. Collaborative climate action planning for addressing vulnerability to extreme heat. *American Association of Geographers Annual Meeting*. Boston, Massachusetts, USA.

Hamstead, Zoé*. October, 2016. Resilience and vulnerability to extreme heat in New York City. *Global Land Project*. Beijing, China.

Hamstead, Zoé*, Carson Farmer and Timon McPhearson. March-April, 2016. Using remote sensing and social data to link heat exposure and susceptibility in New York City. *American Association of Geographers Annual Meeting*. San Francisco, California, USA.

Hamstead, Zoé and Timon McPhearson*. November, 2015. Modeling urban ecosystem service change: Opportunities and uncertainties. *8th Conference of the Ecosystem Services Partnership*. Stellenbosch, South Africa.

Hamstead, Zoé*, Carson Farmer and Timon McPhearson. September-October, 2015. A framework for linking complexity science, urban ecology and environmental justice. *Complex Systems Society '15*, Tempe, Arizona, USA.

Hamstead, Zoé*, Peleg Kremer, Timon McPhearson. August, 2015. Advancing urban ecosystem assessment for urban planning, Natural Capital Symposium, *Ecological Society of America 100th Annual Conference*, Baltimore, Maryland, USA.

Hamstead, Zoé*, Peleg Kremer, Neele Larondelle, Timon McPhearson, and Dagmar Haase. September, 2014. Urban structure classification for ecosystem services. *7th Annual Ecosystem Services Partnership Conference: Local Action for the Common Good*. San José, Costa Rica.

Hamstead, Zoé*, Neele Larondelle, Peleg Kremer, Timon McPhearson, and Dagmar Haase. September, 2014. Decision-support tools for ecosystem services: Developing generalizable approaches. *7th Annual Ecosystem Services Partnership Conference: Local Action for the Common Good*. San José, Costa Rica.

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Kremer, Peleg*, Timon McPhearson and **Zoé Hamstead**. June, 2012. New York City Social-Ecological Systems: A Multi-Criteria Ecosystem Services Valuation Approach. *International Society for Ecological Economics Conference*, Rio de Janeiro, Brazil.

Kremer, Peleg*, **Zoé Hamstead** and Timon McPhearson. 2012. New York City Social-Ecological Systems: A Non-Economic Ecosystem Valuation Approach. *ICLEI (Local Governments for Sustainability) World Congress*, Belo Horizonte, Brazil.

Kremer, Peleg*, P. Timon McPhearson, and **Zoé Hamstead**. 2012. Vacant lots and the urban ecosystem. *Association of American Geographers Annual Meeting*, Washington, D.C., USA.

Kremer, Peleg*, **Zoé Hamstead** and Timon McPhearson. 2011. Regional Biosphere Design and Ecosystem Approaches to the Metro New York City Region. *Environmental Consortium of Hudson Valley Colleges and Universities*, New York, New York, USA.

Safransky, Sara* and **Zoé Hamstead***. April, 2008. A civil society/university collaboration to rebuild local food systems in North Carolina: Assessing the potential. *The Fate of Food Conference*, University of North Carolina Department of Geography, Chapel Hill, North Carolina, USA.

Salvesen, David*, Peter Zambito*, and **Zoé Hamstead***. April, 2008. Safe schools: Identifying environmental threats to children attending public schools in North Carolina. *Florida State University School Siting and Healthy Schools Symposium*, Tallahassee, Florida, USA.

CAMPUS TALKS

Raja, Samina*, **Zoé Hamstead***, Joyce Hwang*, Despina Stratigakos*, and Beth Tauke*. Engendering Equity in Architecture and Planning: A panel conversation with School of Architecture and Planning women faculty. School of Architecture and Planning, University at Buffalo, Buffalo New York, USA. <http://ap.buffalo.edu/events/2021/engenderingequity.html>

Hamstead, Zoé *. March, 2020. Urban Climate Change and Spatial Justice *Department of Geography*. University at Buffalo, Buffalo, New York, USA.

Hamstead, Zoé *. March, 2020. Urban Climate Change. *Climate Change & Sustainability Course guest-lecture*. University at Buffalo, Buffalo, New York, USA.

Hamstead, Zoé *. March, 2019. Urban Climate Change. *Climate Change & Sustainability Course guest-lecture*. University at Buffalo, Buffalo, New York, USA.

Hamstead, Zoé *. March, 2017. Integrating ecosystem-based approaches into collaborative climate action planning, *Baldy Center for Law & Social Policy*, University at Buffalo, Buffalo, New York, USA.

Hamstead, Zoé *. March, 2017. Collaborative climate action planning at the local level. *Korean-American Research Symposium on Urban Environments*, School of Architecture & Urban Planning, University at Buffalo, Buffalo, New York, USA.

Hamstead, Zoé *. October, 2016. Urban ecology approaches for socially-equitable sustainability & resilience planning. *Environmental and Water Resources Engineering Speaker Series*, University at Buffalo, Buffalo, New York, USA.

Hamstead, Zoé *. September, 2016. Urban ecology approaches for climate action planning. *Sustainable Urban Environments Working Group*, Research and Education in Energy, Environment and Water (RENEW), University at Buffalo, Buffalo, New York, USA.

Hamstead, Zoé *. September, 2016. Ecological commitments. *Hayes Hall Reopening Ceremony*, School of Architecture & Urban Planning, University at Buffalo, Buffalo, New York, USA.

Hamstead, Zoé *. May, 2014. Economics and policy intervention: The economics of climate change. *Environmental Economics* undergraduate course, The New School, New York, New York, USA.

McPhearson, Timon* and **Zoé Hamstead***. April, 2013. A social-ecological systems approach to improving policy and planning for urban resilience in New York City. *Milano Brown Bag Seminar*, The New School, New York, New York, USA.

Fajardo, Alejandro, **Zoé Hamstead***, Nadja Kunz*, and Michael Sachs*. July, 2011. A cellular automata model for common pool resource management. *Santa Fe Institute Complex Systems Summer School*, Santa Fe, New Mexico, USA.

Hamstead, Zoé* and Sara Safransky*. April, 2008. Building community food systems in Southeast Central North Carolina. *Working Group on Economic Development at the University of North Carolina*, Chapel Hill, North Carolina, USA.

RESEARCH & TEACHING-RELATED PRESS

Renault, Marion. [Instagram could be the new clipboard survey for NYC Parks](#). 2018 November 15. *Scienceline*.

Scragg, Chris. [ASU researchers to help cities cope with extreme temperatures](#). 2018 March 01. *The State Press*.

Brodie, Mark. [Studying extreme weather's impact on cities, from hot to cold](#). 2018 January 11. *National Public Radio KJZZ 91.5 FM*.

Hill, David J. USA: [Climate change and the tale of two cities](#). 2017 December 05. Prevention Web, United Nations Office for Disaster Risk Reduction. Original story: <http://www.buffalo.edu/news/releases/2017/12/002.html>

Hill, David J. [UB-led renewable energy project aims to leverage Buffalo's past while improving region's future](#). 2017 November 15. *Edison Energy Newsroom*.

[Experts warn heat waves are the new normal](#). 2017 August 09. *The Current, Canadian Broadcast Corporation*. Interview with Anna Maria Tremonti.

REFERENCES IN LAW, POLICY, AND BEST PRACTICE GUIDELINES

Burgess, Katharine and Elizabeth Forester. Scorched: Extreme Heat and Real Estate. Urban Land Institute, p. 63; Zoé Hamstead, telephone interview by Elizabeth Foster, February 4, 2019.

Amicus Brief: City of New York v. BP P.L.C., Chevron Corporation, ConocoPhillips, Exxon Mobil Corporation, and Royal Dutch Shell P.L.C., 18-2188 United States Court of Appeals for the Second Circuit, *Amici Curiae Natural Resource Defense Council, New York City Environmental Justice Alliance, The Point, and UPROSE*, in support of Plaintiff-Appellant, Listed in Table of Authorities 12, 31; Zoé Hamstead, WEACTION, How We Can Use Climate Action Planning to Beat the Heat, Sept. 2016, <https://www.weaction.org/2016/09/climateaction-beat-heat/>

SHORT COURSES AND SPECIAL TRAINING

Computational Summer Institute 2016

SOCIO-ENVIRONMENTAL SYNTHESIS CENTER, ANNAPOLIS, MD
Workshop on hacking and computation for socio-environmental synthesis.

Pedagogy Seminar 2013

THE NEW SCHOOL, New York, NY
Syllabus design and teaching fellow preparatory training course.

Complex Systems Summer School 2011

SANTA FE INSTITUTE, Santa Fe, NM
Interdisciplinary complex studies workshop.

RELATED SKILLS

GIS and Remote Sensing (ESRI ArcGIS, IDRISI, ENVI), Statistics (Stata, R), Microsoft Office.