

## Zoé A. Hamstead

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<https://www.community-resilience-lab.com/>

### EDUCATION

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- 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.

### CURRENT POSITION

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**Assistant Professor**, Environmental Planning  
Department of Urban and Regional Planning, University at Buffalo

**RENEW Institute Faculty**, Research and Education in Energy, Environment and Water,  
University at Buffalo

**Co-Coordinator**, Master's of Urban Planning program, University at Buffalo

### PUBLICATIONS

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#### Refereed Journal Articles

\*Lead author listed first

**Hamstead, Zoé A.**, David Fisher, Rositsa Ilieva, Spencer Wood, Timon McPhearson, Peleg Kremer. 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**, Haase, Dagmar, McPhearson, Timon, Frantzeskaki, Niki, Andersson, Erik, Kabisch, Nadja, Larondelle, Neele, Rall, Emily, Voigt, Annette, Baró, Francesc, Bertram, Christine, Gómez-Baggethun, Erik, Hansen, Rieke, Kaczorowska, Anna, Kain, Jain-Henrik, Kronenberg, Jakub, Langemeyer, Johannes, Pauleit, Stephan, Rehdez, Katrin, Schewenius, Maria, van Ham, Chantal, Wurster, Daniel, Elmqvist, Thomas, 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 Lorance 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**

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.

### **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.

### **Submitted Manuscripts**

**Hamstead, Zoé A.**, & Paul Coseo. 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. (Under Review)

**Hamstead, Zoé A.**, Carson Farmer & Timon McPhearson. Landscape-based extreme heat vulnerability assessment. *Journal of Extreme Events*. (Under Review)

### **Manuscripts in Preparation**

**Hamstead, Zoé A.** & Elizabeth Cook. Vulnerability to extreme heat: A cross-city comparison of landscape-based exposure indicators.

van Diepen, Anandi, **Zoé A. Hamstead** & Vivek Shandas. Vulnerability planning for people & place: Extreme heat as opportunities for intervention. To be submitted to: *Journal of the American Planning Association*.

### **FUNDED GRANTS**

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As Principal Investigator, Co-Investigator or Senior Personnel (\$ 95,952 to UB Architecture & Planning)

2018 - 2019 **Sustainability Research Network**

NATIONAL SCIENCE FOUNDATION

Urban Resilience to Extreme Weather-Related Events/Subaward: "Urban Resilience to Extremes: Urban Heat."

**Funded (in process): \$ 48,195** subaward via Arizona State University

Total Award: \$ 11,999,629

- 2017-2018 **Smart & Connected Communities Planning Grant**  
NATIONAL SCIENCE FOUNDATION  
"Building Capacity for Smart & Connected Management of Thermal Extremes."  
Co-Principal Investigator with Paul Coseo, Ariane Middel, David Hondula & Nicholas Rajkovich  
**Funded \$ 47,757** subaward via Arizona State University.  
Total Award: \$ 100,000.
- 2017-2018 **RENEW Seed Grant**  
RESEARCH AND EDUCATION IN ENERGY, ENVIRONMENT AND WATER (RENEW) INSTITUTE  
"Developing thermal extreme indicators for vulnerability assessment & climate adaptation."  
Principal Investigator, with Co-Investigators Nicholas Rajkovich, Zachary Schlader & Susan Clark  
**Funded \$ 34,706.**
- 2017-2018 **RENEW Seed Grant**  
RESEARCH AND EDUCATION IN ENERGY, ENVIRONMENT AND WATER (RENEW) INSTITUTE  
"Integrated decision support for urban land use, green infrastructure, and stormwater management."  
Co-Investigator with Zhenduo Zhu, Shawn Matott, **Zoé Hamstead** & Alan Rabideau  
**Funded \$ 34,979.**
- 2017-2018 **RENEW Seed Grant**  
RESEARCH AND EDUCATION IN ENERGY, ENVIRONMENT AND WATER (RENEW) INSTITUTE  
"Towards improving the sustainability of urban infrastructures and groundwater usage in growing cities."  
Co-Investigator with Estelle Chaussard & Kallol Sett  
**Funded \$ 30,182.**
- 2016 **Computational Summer Institute**  
SOCIO-ENVIRONMENTAL SYNTHESIS CENTER  
Co-Investigator with Marie Donahue  
Travel funding for workshop on hacking and computation for socio-environmental synthesis.
- 2015 **Civic Engagement Grant**  
THE NEW SCHOOL OFFICE OF THE PROVOST CIVIC ENGAGEMENT FUND  
"Turning Vacant Acres into Community Resources."  
Civic engagement course design and instruction.  
Senior Personnel with Timon McPhearson  
**Funded \$ 5,990**

## PENDING GRANTS

### SUBMITTED GRANTS/NOT FUNDED

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- 2018 - 2021 **Geographic and Spatial Sciences Grant**  
NATIONAL SCIENCE FOUNDATION  
"Expanding Participatory Networks for Heat Wave Vulnerability Assessment."  
Principal Investigator with Co-Investigators Nicholas Rajkovich, Timon McPhearson & Carson Farmer  
**Requested: \$ 399,690**
- 2017 **Infrastructure Management and Extreme Events**  
NATIONAL SCIENCE FOUNDATION  
"A system dynamics approach to critical infrastructure resilience: Prioritizing infrastructure services to support human needs."  
Co-Principal Investigator with Susan Clark, Thomas P. Seager, Sara Meerow & Robert Jeffers.  
Requested: \$410,964
- 2016 **Geographic & Spatial Sciences Grant**  
NATIONAL SCIENCE FOUNDATION  
"Measuring extreme heat vulnerability for climate action planning."  
Principal Investigator with Co-Investigators Timon McPhearson Carson Farmer & Nicholas Rajkovich  
Requested: \$ 399,735
- 2016 **Integrating Human Health and Well-Being with Ecosystem Services**  
ENVIRONMENTAL PROTECTION AGENCY  
"Linking extreme heat, human health and ecosystem services."  
Co-Investigator with Timon McPhearson & Aurash Khwarzad  
Requested: \$ 399,712

### FELLOWSHIPS & AWARDS

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- Science to Achieve Results (STAR) Fellowship** 2014-2016  
U.S. ENVIRONMENTAL PROTECTION AGENCY  
Dissertation fellowship. Funded \$84,000.
- Integrative Graduate Education and Research Traineeship (IGERT) Fellowship** 2010-2011  
NATIONAL SCIENCE FOUNDATION  
Doctoral fellowship. Funded \$47,000.
- Louis Coker Master's Thesis Award** 2008

UNIVERSITY OF NORTH CAROLINA – Chapel Hill

**TEACHING ACTIVITIES**

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**Professor**

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

Fall 2019	Sustainable Urban Environments (undergraduate-level; 30 students)
Spring 2018	Urban Ecology Planning Studio: Engaged Solar Planning in Buffalo's Northland Corridor (master's-level; 10 students)
	Environmental Planning & Policy Seminar (master's-level; 8 students)
Fall 2018	Sustainable Urban Environments: Environmental Justice (undergraduate-level; 26 students)
Spring 2017	Urban Ecology Planning Studio: Assessing the potential for fostering regenerative urbanism in Buffalo's vacant land (master's-level; 9 students)
Fall 2016	Environmental Planning & Policy Seminar (master's-level; 17 students)

**Graduate Student Thesis Committees**

*University at Buffalo Urban and Regional PhD Program*

Smitha Gopalakrishnan, Dissertation Committee Member 2016 – present.

Tu Dam Ngoc Le, Dissertation Committee Member, 2016 – present.

*University at Buffalo Master of Urban and Regional Planning*

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

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**

Allison Smith (END undergraduate student)

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

Last updated: October 31, 2018

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

### Teaching Fellow

ENVIRONMENTAL STUDIES, THE NEW SCHOOL, NEW YORK, NY

Fall 2015                      Spatial Thinking with Geographic Information Systems (undergraduate-level)

Fall 2014                      Spatial Thinking with Geographic Information Systems (undergraduate-level)

### Teaching Assistant

ENVIRONMENTAL STUDIES, THE NEW SCHOOL, New York, NY

Spring 2014                    Environmental Economics (undergraduate-level)

Spring 2014                    Politics and Biodiversity (undergraduate-level)

Fall 2013                      Spatial Thinking with Geographic Information Systems

### INVITED TALKS (\* presenter)

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**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. 1<sup>st</sup> 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. 2<sup>nd</sup> 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. 2<sup>nd</sup> 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. 1<sup>st</sup> 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**

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### 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, 8<sup>th</sup> Annual Conference of the *Ecosystem Services Partnership*, South Africa.



Last updated: October 31, 2018

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

### Papers Presented

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

**Hamstead, Zoé** and Timon McPhearson\*. November, 2015. Modeling urban ecosystem service change: Opportunities and uncertainties. *8<sup>th</sup> 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 100<sup>th</sup> Annual Conference*, Baltimore, Maryland, USA.

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

**Hamstead, Zoé\***, Peleg Kremer, Timon McPhearson, Neele Larondelle and Dagmar Haase. June, 2014. Comparative urban ecology for resilient urban design: A classification approach for urban heat island. *Association for Environmental Studies and Sciences 2014 Conference*. New York, New York, USA.

McPhearson, Timon, Peleg Kremer\*, **Zoé Hamstead\***. January, 2014. Urban ecosystem services and social-ecological research in New York City. *Yale urban ecosystem services symposium: New tools to guide ecosystem management in an urbanizing world*. New Haven, Connecticut, USA.

**Hamstead, Zoé\***, Neele Larondelle, Peleg Kremer, Timon McPhearson and Dagmar Haase. July, 2013. Deriving evaluation units for ecosystem services in urban areas: new methods using remote sensing data. *1<sup>st</sup> Congress of the Society for Urban Ecology*. Berlin, Germany.

**Hamstead, Zoé A.\***, William Gallo, P. Timon McPhearson, and Peleg Kremer. October, 2012. Urban ecology and health: the role of green space in promoting physical activity among senior citizens in New York City. *EcoSummit*, Columbus, OH, USA.

Fajardo, Alejandro, **Zoé A. Hamstead**, Nadja Kunz, Michael Sachs\* and Shweta Singh. October, 2012. Using insights from statistical physics to model common pool resource management. *EcoSummit*, Columbus, OH, USA.

McPhearson, P. Timon\*, Peleg Kremer and **Zoé Hamstead**. October, 2012. Non-economic ecosystem services assessment of urban land in the New York City social-ecological system. *EcoSummit*, Columbus, Ohio, USA.

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**

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

**Zoé Hamstead\***. 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.

**Zoé Hamstead\***. 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.

**Zoé Hamstead\***. 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.

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

**Zoé Hamstead\***. 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**

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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>

Last updated: October 31, 2018

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.

## **SERVICE**

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### **University**

Faculty Senate Committee Representative, 2018-present.

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

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

### **Editorial & Review**

Ambio: A journal of the Human Environment (1)

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 Urban Management (1)

Landscape and Urban Planning (1)

PLOS One (1)

Progress in Physical Geography (1)

Sustainability (1)

### **Professional**

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**

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

Facilitator, Climate Justice Visioning Workshop, Harlem, New York City, USA, 2017.

### **School**

Curatorial Committee Member, 2017.

### **Department**

Co-coordinator, Master's of Urban Planning program, 2018-present.

Planning Chair Search Committee Member, 2017.

Korean-American Curriculum Development Committee Member, 2016.

## **SELECTED RESEARCH AND PROFESSIONAL EXPERIENCE**

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### **External Collaborator**

NATIONAL SCIENCE FOUNDATION SUSTAINABILITY RESEARCH NETWORK

Project: Urban Resilience to Extremes (UREx) 2015-present

As part of a five-year Sustainability Research Network (SRN) led by Arizona State University, assess ways in which social, ecological and technical systems contribute to vulnerability to extreme heat in multiple North, Central, and South American cities.

**Geographic Information Systems Consultant** 2015-2016

WE ACT FOR ENVIRONMENTAL JUSTICE &  
NATURAL RESOURCES DEFENSE COUNCIL, New York NY

Support development of climate resilience plan in Northern Manhattan by mapping spatial distributions of vulnerability to extreme heat and providing urban heat island training and expertise to community organizers and other staff.

### **Research Assistant**

URBAN ECOLOGY LAB, DR. TIMON MCPHEARSON, THE NEW SCHOOL, New York NY  
Use social media data to understand drivers of park visitation rates in New York City. 2015

### **Research Assistant**

TISHMAN ENVIRONMENT & DESIGN CENTER, THE NEW SCHOOL, New York NY  
Project: Urban Biodiversity and Ecosystem Services (URBES) 2011-2014  
Stockholm Resilience Centre

- Conducted comparative urban structure case study with Urban Ecology lab at Humboldt University, Berlin.
- Organized *3rd Annual URBES Meeting*, a week-long event that brought together 25 urban ecology research collaborators from across Europe.

Project: Social-ecology of vacant land 2011-2013

- Used geographic analysis to understand ecological characteristics and ways in which people use vacant land in New York City.
- Organized *Turning Vacant Acres into Community Resources*, a two-day symposium in which over 200 participants, including more than 50 speakers from across the globe shared best practices for facilitating access to vacant land.

**Consulting Statistician** 2012

NEW YORK CITY OFFICE OF THE PUBLIC ADVOCATE, New York, NY

- Analyzed ten years of city agencies' violation data to inform the Public Advocate's policy guidelines for reducing fines to small businesses in New York City.

- Briefed staff, prepared presentation materials for public outreach and reported findings.

**Education and Editorial Associate** 2009-2010

AMERICAN PLANNING ASSOCIATION, Chicago, IL

- Prepared continuing education training packages on sustainability topics and children's educational guide to urban planning.
- Copy edited *Planners Advisory Service* reports and other APA publications; contributed to *The Commissioner*.

**Associate Local Government Planning Consultant** 2008-2009

CLARION ASSOCIATES, Chapel Hill, NC

- Prepared maps, drafted plans, facilitated public meetings and presented land use planning recommendations to appointed and elected local government officials.
- Drafted land use ordinances and performed analysis for affordable housing ordinance study.

**Research Assistant** 2007-2008

INSTITUTE FOR THE ENVIRONMENT, UNIV. OF NORTH CAROLINA, Chapel Hill, NC

Project: Safe Schools

Inventoried and identified gaps in state guidelines that address the siting of schools relative to environmental hazards.

**Research Assistant** 2006-2007

CENTER FOR URBAN AND REGIONAL STUDIES, UNIV. OF NORTH CAROLINA, Chapel Hill, NC

Project: Floodplain buyout programs in Eastern North Carolina

- Administered surveys with buyout participants.
- Conducted statistical analysis of survey data to understand the long-term impacts of buyout programs.

**SHORT COURSES AND SPECIAL TRAINING**

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**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.

Last updated: October 31, 2018

## **RELATED SKILLS**

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

## **MEMBERSHIP**

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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