

## TIMON MCPHEARSON



TISHMAN ENVIRONMENT & DESIGN CENTER  
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My interdisciplinary scholarship, teaching, and community engagement emphasizes the underlying ecological processes that support human wellbeing in order to better plan and design resilient and sustainable cities. Rapidly expanding urbanization poses potentially dramatic implications for the wellbeing of urban residents and the natural systems they depend on. My research, from theory to practice, aims to reveal and support the social-ecological processes that together drive urban livability, sustainability, and resilience to climate change.

Accordingly, my research and teaching advances our understanding of urban social-ecological systems and focuses on providing the underlying science to support urban planning, policy, and design. My research uses both empirical (e.g. “Big Data” analysis, experiments) and theoretical approaches (social-ecological systems and resilience theory) to advance urban social-ecological research using spatial and systems approaches to support development of best practices for planning that increases urban resilience and sustainability at the local and landscape scale.

My research focuses on five overlapping areas:

- (1) Mapping, spatial modeling, and monetary and non-monetary valuation of urban biodiversity and ecosystem services to support urban ecological planning and environmental policy;
- (2) Developing indicators for assessing resilience of urban social-ecological systems;
- (3) Examining effects of policy and management on urban ecosystems;

- (4) Global comparative study of urban biodiversity and ecosystem services,
- (5) Examining effects of urban form and structure on urban ecosystems for land use planning.

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## EDUCATION

- PhD, Ecology, Evolution, and Natural Resources, Rutgers University, 2004  
Dissertation: *The Complexity of Cooperation in Ecological Communities*, Advisor: Peter Morin, Mentor: Steward Pickett
- B.S., Environmental Biology, Taylor University, 1997

## ADDITIONAL GRADUATE EDUCATION

- Cary Institute of Ecosystem Studies, “*Fundamentals of Ecosystems Ecology*”, 1999 (w/Michael Pace and Steward Pickett)
- Princeton University, “*Ecosystems as Complex Adaptive Systems*”, 1998, (w/Simon Levin and Stephen Pacala)
- Organization for Tropical Studies, University of Costa Rica, “*Tropical Biodiversity*”, 1998

## PROFESSIONAL EXPERIENCE

Assistant Professor of Urban Ecology, *Tishman Environment and Design Center, Environmental Studies Program, The New School, 2008-present*

Visiting Assistant Professor of Ecology, *Earth Institute, Columbia University, 2008-2009*

Columbia Science Fellow (Post-doctoral), Ecology, Evolution, and Environmental Biology (E3B), *Earth Institute, Columbia University, 2005-2008*

Scientific Advisor (Ecology), *Science Bulletins, National Center for Science Literacy, Education, and Technology, American Museum of Natural History, 2004-2006*

Scientist and Author, *Network of Conservation Educators and Practitioners, American Museum of Natural History, 2004-2009*

Ecologist/Biodiversity Scientist, *Center for Biodiversity and Conservation, American Museum of Natural History, 2003-2005*

## TEACHING EXPERIENCE

Assistant Professor, *Current Issues in Climate Change*  
Advanced undergraduate urban climate change and resilience course at The New School, Spring 2015

Assistant Professor, *Politics and Biodiversity* (w/Rafi Youatt, New School for Social Research) Graduate/undergraduate political ecology and scientific biodiversity course at The New School

Fall 2012- present

Assistant Professor, *Urban Resilience* (formerly *Urban Ecosystems*)

Undergraduate upper level urban social-ecological systems and resilience course at The New School

Spring 2010- present

Assistant Professor, *Ecology Lab*

Undergraduate upper level ecology wet laboratory course at The New School

Spring 2010- present

Assistant Professor, *Environment and Society*

Undergraduate introductory sustainability course at The New School

Fall 2008 - present

Assistant Professor, *Urban Ecology*

Undergraduate introductory ecology course at The New School

Fall 2008 - present

Assistant Professor, *Environmental Thinking*

Undergraduate introductory environmental issues course at The New School

Fall 2010

Assistant Professor, *Architecture and Social Practice: Tree Seminar* (team taught with Parsons faculty Natalie Fizer, Glenn Forley, and Michael Morris)

Graduate seminar design course at Parsons, The New School for Design

Spring 2009

Visiting Assistant Professor, *Beyond the Human Scale: Cosmology and Ecology*

Graduate/undergraduate seminar at Columbia University

Summer 2007, Winter 2008

Columbia Science Fellow, *Frontiers of Science*

Undergraduate introductory science course at Columbia University

Spring and Fall 2005-2008

Instructor, *Introduction to Remote Sensing*

Graduate course for the Center for Biodiversity and Conservation, American Museum of Natural History, Summer 2005

Lecturer, *Conservation Biology, Plant Ecology, Principles of Ecology*

Undergraduate courses at Rutgers University, 1998-2003

Teaching Assistant, *Principles of Ecology, Plant Ecology, General Biology, Genetics, Genetics Laboratory*

Undergraduate courses at Rutgers University, 1997-2004

## PUBLICATIONS: PEER REVIEWED

Hamstead, Zoé A., Neele Larondelle, Peleg Kremer, Dagmar Haase, and **Timon McPhearson**. "Using urban form characteristics as indicators of climate regulation: A classification of local urban climate regulation using urban morphology." *Ecological Indicators* (Special Issue), in review.

Kremer, Peleg, Zoé A. Hamstead, and **Timon McPhearson**. "The Value of Urban Ecosystem Services: A Spatially Explicit Multicriteria Analysis of Landscape Scale Valuation Scenarios in NYC." *Environmental Science and Policy* (Special Issue), in review.

Elmqvist, Thomas, Niki Frantzeskaki, Erik Andersson, **Timon McPhearson**, Carle Folke, and Kazuhiko Takeuchi. "On Urban Resilience and Sustainability: The need to resolve common misconceptions." *Earth's Future*, in review.

McHale, Melissa R., Steward TA Pickett, Olga Barbosa, David N Bunn, Mary L Cadenasso, Daniel L Childers, Meredith Gartin, George Hess, David M Iwaniec, **Timon McPhearson**, M. Nils Peterson, Alexandria K. Poole, Louie Rivers III, Shade T Shuttles, Weiqi Zhou. "The New Global Urban Realm: Complex, Connected, Diffuse, and Diverse Social-Ecological Systems." *Sustainability* (Special Issue), 7, 5211-5240; doi:10.3390/su7055211

**McPhearson, Timon**, Erik Andersson, Thomas Elmqvist, and Niki Frantzeskaki. 2015. "Resilience Of and Through Urban Ecosystem Services," *Ecosystem Services* (Special Issue), DOI: 10.1016/j.ecoser.2014.07.012

Kremer, Peleg, Erik Andersson, **Timon McPhearson**, and Thomas Elmqvist. 2015. "Advancing the Frontier of Urban Ecosystem Services Research." *Ecosystem Services* (Special Issue), <http://dx.doi.org/10.1016/j.ecoser.2015.01.008>

Andersson, Erik, **Timon McPhearson**, Peleg Kremer, Erik Gomez-Baggethun, Dagmar Haase, Magnus Tuvendal, and Daniel Wurster. 2015. "Scale and Context Dependence of Ecosystem Service Providing Units." *Ecosystem Services* (Special Issue), <http://dx.doi.org/10.1016/j.ecoser.2014.08.001>

Hansen, Rieke, Niki Frantzeskaki, **Timon McPhearson**, Emily Rall, Nadja Kabisch Anna Kaczorowska, Jaan-Henrik Kain, , Martina Artmann, and Stephan Pauleit. 2015. "The uptake of the ecosystem services concept in planning discourses of European and American cities." *Ecosystem Services* (Special Issue), doi:10.1016/j.ecoser.2014.11.013

Andersson, E., Maria Tengö, **Timon McPhearson** and Peleg Kremer. 2015. "Cultural Ecosystem Services as a Platform for Working Towards Urban Sustainability." *Ecosystem Services* (Special Issue), DOI <http://dx.doi.org/10.1016/j.ecoser.2014.08.002>

**McPhearson, Timon**, Zoé Hamstead, and Peleg Kremer. 2014. "Urban Ecosystem Services for Resilience Planning and Management in New York City." *AMBIO: Journal of the Human Environment (Special Issue)* 43:502–515 DOI 10.1007/s13280-014-0509-8

Larondelle, Neele, Hamstead, Zoé A., Peleg Kremer, Dagmar Haase, and **Timon McPhearson**. 2014. "Applying a novel urban structure classification to compare the relationships of urban structure and surface temperature in Berlin and New York City." *Applied Geography*, 53: 427-437.  
<http://dx.doi.org/10.1016/j.apgeog.2014.07.004>

Haase, Dagmar, Neele Larondelle, Erik Andersson, Martina Artmann, Sarah Borgström, Jürgen Breuste, Erik Gomez-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, and Thomas Elmqvist. 2014. "A Quantitative Review of Urban Ecosystem Services Assessments: Concepts, Models, and Implementation." *AMBIO (Special Issue)*, 43:413–433, DOI 10.1007/s13280-014-0504-0

Schewenius, Maria, **Timon McPhearson**, and Thomas Elmqvist. 2014. "Opportunities for Increasing Resilience and Sustainability of Urban Social–Ecological Systems: Insights from the URBES and the Cities Biodiversity Outlook Projects." *AMBIO (Special Issue)*, 43:434-444, DOI 10.1007/s13280-014-0505-z

Falxa-Raymond, Nancy, Matthew I. Palmer, **Timon McPhearson**, and Kevin Griffith. 2014. "Foliar Nitrogen Characteristics of Four Tree Species Planted in New York City Forest Restoration Sites." *Urban Ecosystems* (2014): 1-18,  
<http://link.springer.com/article/10.1007/s11252-014-0346-3>

**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* 11-26, <http://dx.doi.org/10.1016/j.ecoser.2013.06.005>

Kremer, Peleg, Zoé Hamstead, and **Timon McPhearson**. 2013. "A Social-Ecological Assessment of Vacant Lots in New York City." *Landscape and Urban Planning* 218-233, <http://dx.doi.org/10.1016/j.landurbplan.2013.05.003>

Crossman, Neville, Benjamin Burkhard, Stoyan Nedkov, Louise Willemen, Katalin Petz, Ignacio Palomo, Evangelia G. Drakou, Berta Martín-Lopez, **Timon McPhearson**, Kremena Boyanova, Rob Alkemade, Benis Egoh, Martha Dunbar, Joachim Maes. 2013. "A blueprint for mapping and modelling ecosystem services." *Ecosystem Services* 44-14. <http://dx.doi.org/10.1016/j.ecoser.2013.02.001>

**McPhearson, P. Timon**. 2012. "Cities as Highly Functional Socio-Ecological Systems: Solving the Environmental Crisis with a Tree?" *Scapes* 8: 30-37.

**McPhearson, P. Timon**, Mike Feller, Alex Felson, Richard Karty, Jacqueline Lu, Matthew Palmer, and Timothy Wenskus. 2010. "Assessing the Effects of Urban Forest Restoration Effort of MillionTreesNYC on the Structure and Functioning of New York City Ecosystems." *Cities and the Environment* 3(1): Article 7, 21pp.

Petchey, Owen L., Tim Casey, Lin Jiang, **P. Timon McPhearson** and Jennifer Price. 2002. "Species richness, environmental fluctuations, and temporal change in total community biomass." *Oikos* 99: 231-240.

Petchey, Owen L., **P. Timon McPhearson**, Tim M. Casey, and Peter J. Morin. 1999. "Environmental warming alters food-web structure and ecosystem function." *Nature* 420:69-72.

**McPhearson, P. Timon.** 1998. "Immature leaves of *Dussia macrophyllata* deter herbivory by the leaf-cutter *Atta cephalotes*." *OTS Tropical Biodiversity* 98-10: 82-86.

## **PUBLICATIONS : BOOKS/BOOK CHAPTERS**

**McPhearson, Timon**, Madhav Karki, Cecilia Herzog, Peleg Kremer, Christopher Clark, Luc Abbadie, Katia Perini, Matthew Palmer, Helen Santiago Fink, and Maria-Paola Sutto, Jack Ahern, Pippin Anderson, Robert Braumann, Lena Chan, Nate Cormier, Geoffrey Davison, Niki Frantzeskaki, Maria Peláez, Jorge Perez, Helene Roumani, Melanie Simon, Nico Tillie, Naomi Tsur, and Kongjian Yu. "Urban Ecosystems and Biodiversity", in *Second Assessment Report on Climate Change in Cities (ARC3-2)* (Eds. Cynthia Rozensweig, Bill Solecki, et al.), Urban Climate Change Research Network, forthcoming from Cambridge University Press.

**McPhearson, Timon** and Katinka Wijsman. "Transitioning Complex Urban Systems: An Urban Ecology Approach to Urban Sustainability Transitions". In *Urban Sustainability Transitions* (ed. Dirk Lerboch, Niki Frantzeskaki, et al.), forthcoming from Springer.

Pickett, Steward T.A., Kenneth T. Belt, Geoffrey Buckley, Timothy Carter, Edward J. Doheny, Erle C. Ellis, Peter M. Groffman, Gordon M. Heisler, Brian P. McGrath, **Timon McPhearson**, Katalin Szlavecz, and Jonathan M. Walsh. 2014. *BES Urban Lexicon: Concepts for the Interdisciplinary Study of Urban Ecology*. Baltimore Ecosystem Study, ISBN 978-1-312-39712-5.

**McPhearson, Timon** and Keith G. Tidball. 2013. "Disturbances in Urban Social-Ecological Systems: Niche Opportunities for Environmental Education" In, *Trading Zones in Environmental Education: Creating Transdisciplinary Dialogue*, eds. Marianne Krasny and Justin Dillon. Peter Lang, New York.

**McPhearson, Timon**, David Maddox, Bram Gunther, and David Bragdon. 2013. "New York City Biodiversity, Green Space, and Ecosystem Services", In, *Cities and Biodiversity Outlook: Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities*, (Eds: Thomas Elmqvist, Michail Fragkias, Julie Goodness, Burak Güneralp, Peter J. Marcotullio, Robert I. McDonald, Susan Parnell, Maria Schewenius, Marte Sendstad, Karen C. Seto, Cathy Wilkinson), Springer Netherlands, pp.355-383, DOI:10.1007/978-94-007-7088-1\_19

**McPhearson, Timon**, Roger Auch, and Marina Alberti. 2013. "Urbanization trends, biodiversity patterns, and ecosystem services in North America," In, *Cities and Biodiversity Outlook: Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities*, (Eds: Thomas Elmqvist, Michail Fragkias, Julie Goodness, Burak Güneralp, Peter J. Marcotullio, Robert I. McDonald, Susan Parnell, Maria Schewenius, Marte Sendstad, Karen C. Seto, Cathy Wilkinson), Springer Netherlands, pp.279-286, DOI:10.1007/978-94-007-7088-1\_14

Gómez-Baggethun, Erik, Åsa Gren, David N. Barton, Johannes Langemeyer, **Timon McPhearson**, Patrick O'Farrell, Erik Andersson, Zoé Hamstead, and Peleg Kremer. 2013. "Urban Ecosystem Services," In, *Cities and Biodiversity Outlook: Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities*, (Eds: Thomas Elmqvist, Michail Fragkias, Julie Goodness, Burak Güneralp, Peter J. Marcotullio, Robert I. McDonald, Susan Parnell, Maria Schewenius, Marte Sendstad, Karen C. Seto, Cathy Wilkinson), Springer Netherlands, pp.175-251, DOI:10.1007/978-94-007-7088-1\_11

**McPhearson, P. Timon**. 2011. "Toward a Sustainable New York City: Greening Through Urban Forest Restoration." In, *The Triple Bottom Line: Sustainability Principles, Practice, and Perspective in America's Cities* (M. Slavin, editor), pp181-204, Island Press, Washington, D.C.

**McPhearson, P. Timon**, Stuart P.D. Gill, Robert Pollack, and Julia E. Sable. 2008. "Increasing Scientific Literacy in Undergraduate Education: A Case Study from 'Frontiers of Science' at Columbia University." In *A Vision of Transdisciplinarity: Laying Foundations for a World Knowledge Dialogue* (Eds. Frédéric Darbellay, Moira Cockell, Jérôme Billotte, and Francis Waldvogel), EPFL Press, Switzerland.

Johnson, Elizabeth A. and **P. Timon McPhearson**. 2007. *Protecting Nature in Your Community*. Center for Biodiversity and Conservation, American Museum of Natural History, New York.

**McPhearson, P. Timon**. 2006. Contributing author to *Legacy: Conserving New York State's Biodiversity* (eds Johnson, E.A., and D. Smith). American Museum of Natural History, New York State Biodiversity Research Institute, New York State Department of Environmental Conservation, New York Natural Heritage Program, and The Nature Conservancy, Albany, New York.

## ADDITIONAL SCHOLARLY PUBLICATIONS

**McPhearson, Timon** and Victorial Marshall. 2015. "Micro\_Urban: The Ecological and Social Potential of Small-Scale Urban Spaces". *The Nature of Cities*, [http://www.thenatureofcities.com/2015/01/03/micro\\_urban-the-ecological-and-social-potential-of-small-scale-urban-spaces/](http://www.thenatureofcities.com/2015/01/03/micro_urban-the-ecological-and-social-potential-of-small-scale-urban-spaces/)

Also republished in:

- SustainableCitiesCollective.com, <http://sustainablecitiescollective.com/nature-cities/1033451/microuban-ecological-and-social-potential-small-scale-urban-spaces>

**McPhearson, Timon.** 2014. "The Rise of Resilience: Linking Resilience and Sustainability in City Planning". *The Nature of Cities*, <http://www.thenatureofcities.com/2014/06/08/the-rise-of-resilience-linking-resilience-and-sustainability-in-city-planning>.

Also republished in:

- GetResilient.com, <http://www.getresilient.com/article/Riseofresilien>
- SustainableCitiesCollective.com, <http://sustainablecitiescollective.com/nature-cities/255296/rise-resilience-linking-resilience-and-sustainability-city-planning>
- UrbanTimes.com, <http://urbantimes.co/2014/06/resilience-sustainability-city-planning/>

**McPhearson, Timon.** 2014. An Urban Ecology Approach to "The Future We Want". *Revolve Magazine* 11:18-24. <http://www.revolve-magazine.com/home/2014/06/20/urban-ecology-an-approach-to-the-future-we-want/>

Haase, Dagmar, **Timon McPhearson**, Anna Kaczorowska, Niki Frantzeskaki. 2014. "Ecosystem Services in Urban Landscapes: Practical Applications and Governance Implications." *Urbanization and Global Environmental Change: Viewpoints*, Spring 2014.

**McPhearson, Timon.** 2014. "How much should we worry about exotic species in urban zones?" *The Nature of Cities*, <http://www.thenatureofcities.com/?p=6501>

**McPhearson, Timon.** 2014. "Many believe that better information on the monetary value of ecosystem services is critical for getting cities to adopt more green infrastructure solutions". *The Nature of Cities*, <http://www.thenatureofcities.com/?p=5792>

**McPhearson, Timon\***. 2013. "What is Urban Ecology?" *Stockholm Resilience Center Video*. <http://www.stockholmresilience.org/21/research/research-videos/6-4-2013-what-is-urban-ecology.html>

**McPhearson, Timon.** 2013. "Getting Beyond Plant PR: Accounting for Both Services and Disservices of Urban Green Infrastructure." *The Nature of Cities*, <http://www.thenatureofcities.com/?p=3425>

**McPhearson, Timon.** 2013. "Wicked Problems, Social-ecological Systems, and the Utility of Systems Thinking." *The Nature of Cities*, <http://www.thenatureofcities.com/?p=2180>

**McPhearson, Timon.** 2012. "Vacant Land in Cities Could Provide Important Social and Ecological Benefits." *The Nature of Cities*, <http://www.thenatureofcities.com/?p=656>

**McPhearson, Timon\***. 2012. "Why Do We Need an Ecosystem Approach to Urban Sustainability?" *Stockholm Resilience Center Video*. <http://www.stockholmresilience.se/research/researchvideos/whydoweneedanecosystemapproachtourbansustainability.51fc8315a135cb03b5592653.html;jsessionid=>



5FC71E2EE5467CDF97ECE231D4045AD5?state=viewUnsubscribe&sv.url=12.7cf9c5aa121e17bab42800012949

**McPhearson, Timon\***. 2012. "What is Urban Ecology?" *Stockholm Resilience Center Video*.

<http://www.stockholmresilience.org/research/researchvideos/whatisurbanecology.5.1fc8315a135cb03b55925f1.html>

**McPhearson, Timon**, Matthew I. Palmer, Richard Karty, and Sanpisa Sritrairat. *MillionTreesNYC Urban Forest Restoration Study: A Research Report to NYC Parks & Recreation*. 2011. The New School Tishman Environment and Design Center, New York City, NY.

Campbell, Lindsay, Cristiana Fragola, Marianne Krasny, Gina Lovasi, Jacqueline W.T. Lu, David Maddox, Simon McDonnell, **P. Timon McPhearson**, Franco Montalto, Andrew Newman, Ellen Pehek, Ruth A. Rae, Megan Shane, Richard Stedman, Erika Svendsen, Keith G. Tidball, Lynne Westphal, and Tom Whitlow (authors listed alphabetically). 2010. *MillionTreesNYC, Green Infrastructure, and Urban Ecology: Building a Research Agenda*, MillionTreesNYC Advisory Board Research & Evaluation Subcommittee, NYC Department of Parks & Recreation, New York City, NY.

Horning, Ned, **P. Timon McPhearson**, and Osman C. Wallace. 2009. *An Introduction to Remote Sensing*. Network of Conservation Educators and Practitioners, American Museum of Natural History, New York.

**McPhearson, P. Timon** and Osman C. Wallace. 2007. *Application of Remote Sensing to Biodiversity Conservation*. Network of Conservation Educators and Practitioners, American Museum of Natural History, New York.

**McPhearson, P. Timon**. 2005a. *How Will Climate Change Affect Natural Ecosystems?: An Exercise*. Network of Conservation Educators and Practitioners, American Museum of Natural History, New York.

**McPhearson, P. Timon**. 2005b. *Evaluating Climate Standards*. Network of Conservation Educators and Practitioners, American Museum of Natural History, New York.

Horning, Ned and **P. Timon McPhearson**. 2004. *Viewing Landsat TM images with Adobe Photoshop: Reformatting images into GeoTIFF format*. Remote Sensing and Geographic Information Facility, Center for Biodiversity and Conservation, American Museum of Natural History, New York.

**McPhearson, P. Timon**. 2004. *The Complexity of Cooperation in Ecological Communities*. Ph.D. Dissertation. Rutgers University. New Brunswick, NJ.

**McPhearson, P. Timon** and Peter J. Morin. 2003. Review of "The importance of species: Perspectives on expendability and triage," P. Kareiva and S.A. Levin (eds). *Integrative and Comparative Biology* 43:603.

**McPhearson, Timon**, S.T.A. Pickett, N. Grimm, M. Alberti, T. Elmqvist, J. Niemelä, C. Weber, J. Breuste, D. Haase, and S. Qureshi. "Ecology for an Urban Planet: Advancing Theory and Practice Towards a Science of Cities." *BioScience*, in prep.

Niki Frantzeskaki, **Timon McPhearson**, Thomas Elmqvist, and Carl Folke, and. "Linking Resilience and Sustainability." *Environmental Science and Policy* (Special Issue), in prep

**McPhearson, Timon**. "Ecosystem Services and Disservices in Urban Social-Ecological Systems." *Sustainability Science* (Invited for Special Issue), in prep.

**McPhearson, Timon** and Xuemei Bai. "Towards a Good Anthropocene: Transformations for Desirable Urban Futures." *Current Opinion in Environmental Sustainability* (Invited for Special Issue), in prep.

**McPhearson, Timon**, Sanpisa Sritrairat, Regina Alvarez, Bram Gunther, David Maddox, Zoé Hamstead, and Peleg Kremer. "Biodiversity in New York City: Ecological infrastructure for urban resilience." *Ecology*, in prep.

**McPhearson, Timon**, Sanpisa Sritrairat, and Clare Riley. "Tree Survivorship in MillionTreesNYC Urban Forest Restoration Sites." *Urban Ecosystems*, in prep.

Sritrairat, Sanpisa and **Timon McPhearson**. "Heavy Metal Heterogeneity in Urban Soils of New York City." *Environmental Pollution*, in prep.

Reed, Hugh, Peleg Kremer, Sanpisa Sritrairat, and **Timon McPhearson**. "Carbon Storage in Urban Vacant Lots: A New York City Case Study." *Cities and the Environment*, in prep.

Matthew I. Palmer, **Timon McPhearson**, and Sanpisa Sritrairat. "Urban Forest Restoration In New York City: Effects on Plant Community Structure, Composition, and Abundance." *Restoration Ecology*, in prep.

**McPhearson, Timon**, Sanpisa Sritrairat, and Richard Karty. "Soil Carbon and Nutrient Heterogeneity in New York City Parkland." *Urban Ecosystems*, in prep.

## **RECENT/SELECTED INVITED LECTURES** \*presenter

**McPhearson, Timon**\*. 2015. Moderator "Cities Under Siege: Climate Change Resilience", part of #EarthMatters: Designing Our Future, Tishman Environment and Design Center, The New School, New York, New York.  
[http://events.newschool.edu/event/tedc\\_inaugural\\_earth\\_day\\_celebration#.VUZMDs7TnLg](http://events.newschool.edu/event/tedc_inaugural_earth_day_celebration#.VUZMDs7TnLg)

**McPhearson, Timon**\*. 2015. Opening Keynote "Natural Capital in Cities: A critical resource for improving equity, resilience, and sustainability." *Natural Capital Project* conference, Stanford University, Palo Alto, California.

**McPhearson, Timon\***. 2015. "Incorporating Ecosystems Into Urban Planning and Management for Equity, Resilience, and Sustainability." Environmental Studies program, Pace University, New York.

**McPhearson, Timon\***. 2015. "Incorporating Ecosystems Into Urban Planning for Equity, Resilience, and Sustainability." Lectures in Urban Planning Series (LiPS), Graduate School of Architecture, Planning, and Preservation (GSAPP), Columbia University, New York.

**McPhearson, Timon\***. 2015. "Bright Spots: Seeds of a Good Anthropocene." A research project of *Future Earth*, Stockholm, Sweden.

**McPhearson, Timon\***. 2015. "Future Earth and Future Urban Europe." Invited presentation to the *European Commission DG Research and Innovation*, with Belmont Forum, Biodiversa, and FP7 Projects, Brussels, Belgium.

**McPhearson, Timon\***. 2015. "Demonstrating the Values of Urban Nature in New York". Invited presentation to the URBES Project coordinated by *IUCN, Biodiversa*, and *European Commission DG Research and Innovation*, Brussels, Belgium.

**McPhearson, Timon\***. 2014. "Urban Ecology, Biodiversity, and Ecosystem Services." Second Assessment Report on Climate Change and Cities (ARC3-2) Workshop, *Urban Climate Change Research Network (UCCRN)*, London, UK.

**McPhearson, Timon\***. 2014. Mentor and presenter, "Urban Ecosystems and Biodiversity Conservation", *Student Conference on Conservation Science, American Museum of Natural History, Center for Biodiversity and Conservation*, New York, NY.

**McPhearson, Timon\***. 2014. "Livable, Equitable, Resilience Cities." Pop-Up Class, *Climate Action Week, People's Climate March, Union Square GreenMarket*, New York City.

**McPhearson, Timon\***. 2014. "Urban Ecology in the MillionTreesNYC Afforestation Project." Invited presentation to *NYC Department of Parks & Recreation, Natural Resources Group*, New York, NY.

**McPhearson, Timon\***. 2014. "A Social-Ecological Approach to Urban Ecosystem Services and Resilience." Invited presentation to *Stockholm Resilience Center*, Stockholm University, Stockholm, Sweden.

**McPhearson, Timon\***. 2014. "Social-ecological Assessment and Non-Economic Valuation of Ecosystem Services in New York City." Invited presentation to *SESYNC Workshop, "Incorporating Values and Assessing Social and Environmental Trade-offs in Managing for Ecosystem Services"*, Annapolis, Maryland,  
[http://nicholasinstitute.duke.edu/sites/default/files/sesync2\\_workshopsummary\\_v4.pdf](http://nicholasinstitute.duke.edu/sites/default/files/sesync2_workshopsummary_v4.pdf)

**McPhearson, Timon\***. 2014. "Ecosystem Services in New York City." Urban Biodiversity and Ecosystem Services (URBES) Annual Meeting. The New School, New York, NY.

**McPhearson, Timon\***. 2014. "The Value of Urban Ecosystems." *Urban InVEST Workshop* with Stockholm Resilience Center, Beijer Institute of Ecological Economics, Stanford University, and The Natural Capital Project, Stockholm, Sweden. June, 2014.

**McPhearson, Timon\***. 2013. "The Ecological Benefits of Urban Vacant Lots." GrowNYC Pop-Up Class, Union Square GreenMarket, New York City.  
<http://www.grownyc.org/newgreencity/schedule>

**McPhearson, Timon\***. 2013. "Ecology in and Ecology Of New York City: Vacant Lots, Urban Afforestation, and Ecosystem Services", *Keynote lecture, Cary Institute of Ecosystem Studies*, Millbrook, NY.  
<http://themillbrookindependent.com/content/ecology-3>

**McPhearson, Timon\***. 2013. "Vacant Lots in New York City: Social-Ecological Assessment, SMCA, and Ecosystem Services Valuation," Invited lecture to *Local Code 2.0*, College of Environmental Design, University of California Berkeley, Berkeley, CA.

**McPhearson, Timon\***. 2013. Invited participant to *Urbanization, Biodiversity and Ecosystem Services*, URBES Research Workshop, Universitat Autònoma de Barcelona, Barcelona, Spain.

**McPhearson, Timon\***. 2013. Invited lecture and panelist, "Urban Biodiversity, Ecosystem Services, and Land Use: Managing Urban Nature for Human Health and Well-being in New York City", *1<sup>st</sup> URBES Training session: Monetary and non-monetary valuation of urban biodiversity and ecosystem services*, hosted by ICLEI and IUCN, Pati Manning, Barcelona, Spain.

**McPhearson, Timon\***. 2013. Invited participant and author for *Urban Climate Change Research Network (UCCRN)*, "2nd Assessment Report on Climate Change and Cities (ARC3-2)", Columbia University, New York, NY.

**McPhearson, Timon\***. 2013. Invited lecture and participant to *Degradation and Loss of Peri-Urban Ecosystems*, Rockefeller Foundation, New York, NY.

**McPhearson, Timon\***. 2013. Invited lecture and panelist, "The need for systems approaches to conserve and manage urban ecosystems" for *The Next Big Questions in Urban Conservation Biology*, American Museum of Natural History, Center for Biodiversity and Conservation, New York, NY.

**McPhearson, Timon\***. 2013. Invited lecture, "Invasive, Exotics, and Diversity in Urban Ecology", to *Low Residency MFA program*, TransART Institute, Berlin, Germany.

**McPhearson, Timon\***. 2013. Invited presentation, "The Nature of Cities: Vacant lots as opportunities for social-ecological transformation and resilience in cities," *Summit for New York City*, Municipal Arts Society, Lincoln Center, New York, NY.

**McPhearson, Timon\***. 2013. Invited participant, *Conceptual Models Working Group, Urban Sustainability Research Coordination Network*, National Science Foundation, North Carolina State University, Raleigh, NC.

**McPhearson, Timon\***. 2013. "The URBIS Designation Process: What is it all about?" Invited presentation to the URBIS Webinar, *Urban Biosphere Initiative (URBIS)*, ICLEI Local Governments for Sustainability, IUCN, and Stockholm Resilience Center.

**McPhearson, Timon\***. 2013. Invited participant to *Urbanization, Biodiversity and Ecosystem Services*, URBES 2<sup>nd</sup> Annual Meeting, Technical University Of Munich, Munich, Germany.

**McPhearson, Timon\***. 2013. "Natural Capital: Ecosystem Services Comes of Age." Invited lecture to Teacher Renewal for Urban Science Teaching (TRUST), *Summer Institute on Evolution, Ecology, and Biodiversity*, American Museum of Natural History, Gottesman Center for Science Teaching and Learning, New York City, NY.

**McPhearson, Timon\***. 2013. "Identifying Hotspots for Social-Ecological Transformation: The Case of New York City Vacant Lots and Green Infrastructure." Invited presentation to *The Ecology of New York City: Organisms, Environment, and History*, Department of Ecology, Evolution, and Environmental Biology, Columbia University, New York City, NY.

**McPhearson, Timon\***. 2013. "Urban green space and health." Invited panelist and moderator, *A Mini-Conference on "Research to Policy"*, Population Research Center, Columbia University, School of Social Work, New York City, NY.

**McPhearson, Timon\***. 2013. Invited participant, *Transdisciplinary research for governance of social-ecological systems*, Beijer Institute of Ecological Economics, Royal Swedish Academy of Sciences, Stockholm, Sweden.

**McPhearson, Timon\***. 2013. Invited participant, *Positive resource dependency and resilience in urban systems*, Karklö Island Workshop, Stockholm Resilience Center, Stockholm, Sweden.

**McPhearson, Timon\*** and Zoé Hamstead. 2013. "A Social-ecological Systems Approach to Improving Policy and Planning for Urban Resilience in New York City." Invited lecture to *Milano The New School for Management and Urban Policy*, New York City, NY.

**McPhearson, Timon\***. 2012. Invited participant to High-level workshop on *Natural Solutions for Urban Areas in Europe*, European Parliament Intergroups: Climate Change, Biodiversity And Sustainable Development and Urban, European Parliament, Brussels, Belgium.

**McPhearson, Timon\***. 2012. "InVEST Modeling for Urban Ecosystem Services Valuation." Invited presentation to the URBES 1st Research Workshop, *Urban Ecosystem Services: Linking knowledge to governance and practice*, Dutch Research Institute for Transitions (DRIFT), Erasmus University, Rotterdam, The Netherlands.

**McPhearson, Timon\***, Peleg Kremer, and Zoé Hamstead. 2012. "Biodiversity and Ecosystem Services in the New York Social-Ecological System." Invited presentation to the URBES 1st Research Workshop, *Urban Ecosystem Services: Linking knowledge to governance and practice*, Dutch Research Institute for Transitions (DRIFT), Erasmus University, Rotterdam, The Netherlands.

**McPhearson, Timon\***. 2012. "Benefits of Vacant Lots for Human Well-being." Invited public lecture to *New Green City*, GrowNYC, Union Square New York, NY.

**McPhearson, Timon\***. 2012. "Stacking Urban Ecosystem Services of Green Infrastructure in the New York City Social-Ecological System." Invited Lecture to *Center for Urban Eco-Planning & Design*, Fudan University, Shanghai, China.

**McPhearson, Timon** and Peleg Kremer\*. 2012. "Socio-ecological value profiles of urban landscapes." *Urban Nature Forum*, ICLEI (Local Governments for Sustainability), Belo Horizonte, Brazil.

**McPhearson, Timon\***. 2012. "An Ecological Approach to Improving Resilience and Sustainability in New York City." Invited Lecture to the *Urban Ecology Lecture Series*, Gowanus Canal Conservancy, Brooklyn, NY.

**McPhearson, Timon\*** and Peleg Kremer. 2012. "Social-Ecological Non-Economic Valuation of Urban Green Infrastructure in The New York City Ecosystem." Invited speaker to the *Urban Biosphere (URBIS) Initiative* Jerusalem meeting, sponsored by the Jerusalem Mayor's Office of Jerusalem, ICLEI (Local Governments for Sustainability) LAB (Local Action for Biodiversity) (an ICLEI - IUCN Programme), and the Dead Sea Drainage Authority, Jerusalem, Israel.

**McPhearson, Timon** and Peleg Kremer\*. 2012. *Mapping Ecosystem Services in New York City*. Invited speaker to the Urban Biosphere (URBIS) Initiative Jerusalem meeting, sponsored by the Jerusalem Mayor's Office of Jerusalem, ICLEI (Local Governments for Sustainability) LAB (Local Action for Biodiversity) (an ICLEI - IUCN Programme), and the Dead Sea Drainage Authority, Jerusalem, Israel.

Palmer, Matthew\*, Marielle Anzelone, Richard Karty, and Sanpisa Sritrairat, Myla Aronson, Alex Felson, **and Timon McPhearson**. 2012. *Vegetation Change Following Urban Tree Planting: Early Results from the MillionTreesNYC Reforestation Program*. Invited Lecture to the NYC Department of Parks & Recreation Natural Resources Group, New York, NY.

**McPhearson, Timon\***, Peleg Kremer, and Zoé Hamstead. 2012. *Non-Economic Valuation of Urban Ecosystem Services in The New York City Social-Ecological System*. Invited Lecture to the Urban Biodiversity and Ecosystem Services (URBES) Meeting, sponsored by the Stockholm Resilience Center and the Beijer Institute for Ecological Economics, Stockholm, Sweden.

**McPhearson, Timon\***, Peleg Kremer, and Zoé Hamstead. 2011. *The New York City Social-Ecological System: An Urban Biosphere Approach to Ecosystem Service Assessment*. Invited Lecture to the Urban Biosphere (URBIS) Initiative New York Workshop, sponsored by ICLEI (Local Governments for Sustainability), UNESCO, and the Stockholm Resilience Center, United Nations, New York, NY.

\*Invited Lectures from 2011 and earlier available upon request

## **RECENT/SELECTED CONFERENCE PAPERS** (\*presenter)

Muñoz-Erickson, T.A. N. B. Grimm, C. L. Redman, M. V. Chester, D. Iwaniec, **T. McPhearson**, and T. R. Miller. 2015. "Urban Resilience to Extremes: A Sustainability Research Network on Social-Ecological-Technological Systems", *Earth Systems Governance*, Canberra, Australia.

Grimm, N.B., C. L. Redman, M. V. Chester, D. Iwaniec, **T. McPhearson**, T. R. Miller, and T. A. Muñoz-Erickson. 2015. "Urban Resilience to Extremes: A Proposed Sustainability Research Network," *Central Arizona-Phoenix (CAP) Long-term Ecological Research (LTER) Project Annual Meeting*, Phoenix, Arizona.

**McPhearson, Timon\***. 2014. "Taking Advantage of BIG DATA and the Internet of Things to Advance the Social-Ecological Study of Urban System Complexity," *Urban Transitions and Transformations: Science, Synthesis, and Policy, 2<sup>nd</sup> International Urbanization and Global Environmental Change (UGEC) Conference*, Taipei, Taiwan.

Hamstead, Zoé\*, Peleg Kremer, **Timon McPhearson**, Neele Larondelle, and Dagmar Haase. 2014. "Decision-support tools for ecosystem services: developing generalizable approaches." *Ecosystem Services Partnership, 7<sup>th</sup> Annual Meeting*, San Jose, Costa Rica.

**McPhearson, Timon\***. 2014. "Avoiding traps by accounting for the social-ecological generation of both ecosystem services and disservices." Invited presentation for session: "Tips or Traps? Advancing understanding to steer clear of impoverishment traps and Tipping points." *Resilience 2014*, Montpellier, France.

**McPhearson, Timon\***. 2014. "Resilience Of and Through Urban Ecosystem." Invited presentation for session: "Transformative capacities and urban ecologies at the forefront of resilience and sustainability – challenges and opportunities in urban planning." *Resilience 2014*, Montpellier, France.

Kremer, Peleg\*, **Timon McPhearson**, Zoe Hamstead . 2014. "Ecosystem Services in the New York City Social-ecological System: Multi-criteria analysis, tradeoffs and synergies." *Resilience 2014*, Montpellier, France.

Hamstead, Zoé\*, Peleg Kremer, and **Timon McPhearson**. 2014. "A classification for comparative urban ecology and resilient urban design." Invited presentation to panel "The Anthropocene and the Urban Challenge: Social-Ecological Research and Practice in New York City." *Association for Environmental Studies and Science Annual Meeting*, New York City, NY.

**Timon McPhearson**, Peleg Kremer\*, and Zoé Hamstead\*. 2013. "Urban Ecosystem Services and Social-Ecological Research in New York City," *Yale Urban Ecosystem Services Symposium*, Yale Hixon Center for Urban Ecology, Yale School of Forestry and Environmental Studies, New Haven, CT.

**Timon McPhearson**, Thomas Elmqvist\*, Dagmar Haase, and Erik Gomez-Baggathun. 2013. "Towards an Integrated Framework for Investigating Urban Ecosystem Services", Symposium Chair and presenter, *Making Ecosystem Services Count, 6<sup>th</sup> Annual International Ecosystem Services Partnership Conference*, Bali, Indonesia.

**Timon McPhearson\***. 2013. "Methodological and theoretical approaches for dealing with socio-ecological complexity of urban areas." Symposium Chair and Speaker, *Society for Urban Ecology, 1<sup>st</sup> World Congress, Berlin, Germany.*

**Timon McPhearson\***, Peleg Kremer, and Zoé Hamstead. 2013. "Identifying hotspots for social-ecological transformation: A multi-criteria approach to assessing urban ecosystem services." *Society for Urban Ecology, 1<sup>st</sup> World Congress, Berlin, Germany.*

Erik Andersson\*, **Timon McPhearson** Niki Frantzeskaki, Erik Gomez Baggethun, Dagmar Haase, Jaan-Henrik Kain, Jari Niemelä, Magnus Tuvendal, and Danial Wurster. 2013. "What does it take to ensure generation of and access to ecosystem services?" *Society for Urban Ecology, 1<sup>st</sup> World Congress, Berlin, Germany.*

Zoé Hamstead\*, Peleg Kremer, Neele Larondelle, Dagmar Haase, and **Timon McPhearson**. 2013. "Deriving evaluation units for ecosystem services in urban areas." *Society for Urban Ecology, 1<sup>st</sup> World Congress, Berlin, Germany.*

Rieke Hansen\*, Niki Frantzeskaki, **Timon McPhearson**, Emily Rall, Anna Kaczorowska, Jaan-Henrik Kain, Nadja Kabisch, Stephen Pauleit. 2013. "Are we ready for urban ecosystem services yet? Institutional conditions for application of the urban ecosystem service framework in Berlin, New York, Rotterdam, Salzburg and Stockholm." *Society for Urban Ecology, 1<sup>st</sup> World Congress, Berlin, Germany.*

Johannes Langemeyer\*, Dagmar Haase, **Timon McPhearson**, Peleg Kremer, Francesc Baró, Emily Rall, Erik Gomez-Baggethun, Niki Frantzeskaki, Sabastian Scheuer. 2013. "Multi-criteria framework for enhancing relevance of urban ecosystem service assessments for policy- making." *Society for Urban Ecology, 1<sup>st</sup> World Congress, Berlin, Germany.*

N. Larondelle\*, D. Haase, Z. Hamstead, P. Kremer, **T. McPhearson**. 2013. "Generic urban land use and land cover classification to reduce uncertainty for deriving ecosystem functions and services: The comparison of Berlin and New York City", *IALE-D Annual conference, Dresden, Germany*

**McPhearson, Timon\***, Matthew I. Palmer, Richard Karty, and Sanpisa Sritrairat. 2012. "Assessing Urban Forest Restoration Effects on Vegetation Dynamics and Plant-Soil Interactions in New York City Urban Parkland." *4<sup>th</sup> International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services, Columbus, Ohio.*

Sritrairat, Sanpisa\* and **Timon McPhearson**. 2012. "Urban Soil Heterogeneity in New York City Parkland." *4<sup>th</sup> International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services, Columbus, Ohio.*

Zoé Hamstead\*, William Gallo, **Timon McPhearson**, and Peleg Kremer. 2012. "Urban ecology and health: the role of green space in promoting physical activity among senior citizens in New York City." *4<sup>th</sup> International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services, Columbus, Ohio.*



**McPhearson, Timon\***, Peleg Kremer, and Zoé Hamstead. 2012. "Non-economic Ecosystem Services Assessment of Urban Land in the New York City Social-Ecological System." *4<sup>th</sup> International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services*, Columbus, Ohio.

Kremer, Peleg\*, **Timon McPhearson**, and Zoé Hamstead. 2012. "Social-Ecological Urban Ecosystem Valuation - A Non-Monetary Evaluation Methodology for Vacant Lots in New York City." *4<sup>th</sup> International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services*, Columbus, Ohio.

**McPhearson, Timon** and Keith G. Tidball\*. 2012. "Disturbances in Urban Social-Ecological Systems: Niche Opportunities for Environmental Education." *4<sup>th</sup> International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services*, Columbus, Ohio.

**McPhearson, Timon\***. 2012. "Non-Economic Urban Ecosystem Services Stacking in the Social-Ecological System of New York City." *Keynote presentation at the 11<sup>th</sup> Urban Environment Symposium*, Karlsruhe, Germany.

**McPhearson, Timon**, Sanpisa Sritrairat\*, Matthew Palmer, and Richard Karty. 2012. "Urban soil heterogeneity and plant-soil interactions in New York City parkland." *Ecological Society of America Annual Meeting*, Portland, Oregon.

**McPhearson, Timon**, Peleg Kremer\*, and Zoé Hamstead 2012. *Non-economic ecosystem services assessment of urban land in the New York City social-ecological system. Ecological Society of America Annual Meeting*, Portland, Oregon.

**McPhearson, Timon\***. 2012. "A social-ecological research agenda for urban ecosystem services assessment." Invited presentation to the Urban Biome Expert Group, *Ecosystem Services Partnership*, Portland, Oregon.

**McPhearson, Timon\***, Peleg Kremer, and Zoé Hamstead. 2012. "Non-economic ecosystem services assessment of urban land in the New York City social-ecological system." *Ecosystem Services Partnership conference*, Portland, Oregon.

**McPhearson, Timon** and Peleg Kremer\*. 2012. "New York City social-ecological systems: A Non-economic ecosystem services valuation approach." *3rd International Urban Research Symposium, ICLEI (Local Governments for Sustainability) World Congress*, Belo Horizonte, Brazil.

**McPhearson, Timon**, Peleg Kremer\*, and Zoé Hamstead. 2012. "Urban Ecosystem Services in New York City: A Social-Ecological Multi-Criteria Approach." *International Society for Ecological Economics Conference - Ecological Economics and Rio+20: Challenges and Contributions for a Green Economy*, Rio de Janeiro, Brazil.

**McPhearson, P. Timon\***, Peleg Kremer, and Zoé Hamstead. 2012. "Non-economic Ecosystem Services Stacking in the Social-Ecological System of New York City." *Planet Under Pressure Conference*, London, UK.

**McPhearson, P. Timon**, Richard Karty, and Sanpisa Sritrairat\*. 2012. Urban Forest Restoration Affects Diversity and Composition of Vegetation in NYC Parks. *Society for Ecological Restoration, Mid-Atlantic Meeting*, New York, NY.

Falxa-Raymond\*, Nancy, Matthew Palmer, **P. Timon McPhearson**, and Kevin Griffin. 2012. "Nitrogen Characteristics of Four Tree Species at New York City Reforestation Sites." *Society for Ecological Restoration, Mid-Atlantic Meeting*, New York, NY.

**McPhearson, P. Timon**, Peleg Kremer\*, and Zoé Hamstead. 2012. "Vacant Lots and the Urban Ecosystem." *Association of American Geographers*, New York, NY.

**McPhearson, P. Timon**, Sanpisa Sritrairat\*, and Richard Karty. 2012. "Soil Heterogeneity in Patchy Urban Ecosystems: An Analysis of Soil Carbon, Nutrients and Heavy Metal Distribution in New York City Parkland." *Association of American Geographers*, New York, NY.

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

**McPhearson, P. Timon\***, Alexander Felson, Richard Karty, and Matthew I. Palmer. 2010. "Urban Forest Restoration: Assessing Effects on the Structure and Function of New York City Ecosystems." *Society for Conservation Biology*, Edmonton, Canada.

**McPhearson, P. Timon\***, Matthew I. Palmer, Richard Karty, Jacqueline W.T. Lu, Michael Feller, Timothy Wenskus, and Alexander Felson. 2010. "Assessing the Effects of MillionTreesNYC on the Structure and Function of Urban Ecosystems." *MillionTreesNYC, Green Infrastructure, and Urban Ecology: A Research Symposium*, New York, NY.

Palmer, Matthew I.,\* **P. Timon McPhearson**, Richard Karty, Jacqueline W.T. Lu, Mike Feller, Timothy Wenskus, and Alex Felson. 2010. "Reforestation Targets for New York City." *MillionTreesNYC, Green Infrastructure, and Urban Ecology: A Research Symposium*, New York, NY.

## ECOLOGY/ART COLLABORATIONS

**Timon McPhearson\*** and Victoria Marshall. 2014. "Micro\_Urban: Recognizing and reconceiving micro-space in the city for human and ecological health." *Cities as Living Lab (CaLL) Project*, Mary Miss Studio, New York, NY.

**McPhearson, Timon\***. 2013. "Urban Invasives: Meaning, Models, and Metaphors." Invited guest lecture, *Low Residency MFA Program*, Transart Institute, Berlin, Germany.

**McPhearson, Timon\***. 2013. "Social-ecological System Complexity and Urban Resilience." *Constructing a Place*, a panel discussion with Barbara Adams, Mary Di Lucia, Maria Iñigo Clavo, Steven H. Madoff, Lize Mogel, Ernesto Pujol, Damon Rich, and Laura F. Gibellini. *Spain Culture New York—Consulate General of Spain, Independent Curators International Gallery*, New York, NY.  
[http://curatorsintl.org/events/panel\\_discussion\\_construyendo\\_un\\_lugar\\_constructing\\_a\\_place](http://curatorsintl.org/events/panel_discussion_construyendo_un_lugar_constructing_a_place)

**McPhearson, P. Timon\*** and Michael Cirino\*. *New York City Mud Pies or The Taste of Climate Change: Urban Reforestation in NYC*. 2011. Part of *U-N-F-O-L-D: A Cultural Response to Climate Change*, an exhibit with a razor, a shiny knife in partnership with Eyebeam Art + Technology Center. Sheila C. Johnson Design Center Anna-Maria and Stephen Kellen Gallery, Parsons The New School for Design, New York City, NY.

**McPhearson, P. Timon\*** and Philip Silva\*. 2010. *StEM: Stewardship and the Urban Forest of New York City*. iLandArt 2010 Symposium, NYC, NY.

Michael Mandiberg\* and **P. Timon McPhearson**. 2008. *Feedback: What does it mean to think "green?"*, Exhibition of *The RealCosts* Carbon Calculator, Eyebeam Art + Technology Center Gallery, New York City, NY.

## GRANTS/FUNDING

*Extreme Events, Climate Change, and Community Resilience Scenario Pathways*, National Science Foundation, PI Bill Solecki, Co-PI **Timon McPhearson** with others. \$2,600,000 (pending).

*The mental health benefits of nature experience: Translating science to urban design*, University of Minnesota Serendipity Grant, PI Bonnie Keeler, co-author **Timon McPhearson** with others. Funded: \$19,000.

*Urban Resilience to Extremes Sustainability Research Network (UREx SRN)*, National Science Foundation, PI Charles Redman, Co-PI **Timon McPhearson** with others. Funded: \$12,000,000.

*What is urban? - Global urbanization as viewed from multiple scientific domains*, Future Earth, Urban Cluster, PI Thomas Elmqvist, Co-PI **Timon McPhearson** with others. 2014. Funded: \$75,000.

*Bright Spots: Seeds of a Good Anthropocene*, Future Earth, Fast-track Initiative, PI Elena Bennett, Co-PI **Timon McPhearson** with others. 2014. Funded: \$75,000.

*Scientific Support for the Intergovernmental Panel on Biodiversity and Ecosystem Services (IPBES) Knowledge Generation*, Future Earth, Cluster, PI Paul Leadley, Co-PI **Timon McPhearson** with others. 2014. Funded: \$100,000.

*Global Biodiversity Monitoring, Prediction and Reporting*, Future Earth, Urban Cluster, PI Walter Jetz, Co-PI **Timon McPhearson** with others. 2014. Funded: \$100,000.

*Modeling the economic value of urban green infrastructure with Urban InVEST: A model design and development framework*, Natural Areas Conservancy, **Timon McPhearson**, PI, Tishman Environment and Design Center, The New School, 2014. Funded: \$24,196.

*Turning Vacant Acres into community Resources*, NSPE Civic Engagement Fund, PI Timon McPhearson. 2014. Funded: \$6000.

*Soil-Vegetation Dynamics and Tree Growth and Survivorship Outcomes of MillionTreesNYC Forest Restoration in New York City Parkland*, Eppley Foundation for

Research, **Timon McPhearson**, PI, Tishman Environment and Design Center, The New School, 2013. Funded: \$25,500.

*Initiative for Educational Innovation in University-Community Partnerships*, Rockefeller Foundation, Cultural Innovation Fund, Michele Kahane, PI, and Co-PIs: Karen Demoss, **P. Timon McPhearson**, and Anthony Whitfield. The New School for Public Engagement, 2012. Funded: \$250,000

*The New School University Center Green Roof*, New York City Department of Environmental Protection NYC Green Infrastructure Grant Program, Lia Gartner, PI, and Co-PIs: Joshua Cohen, Gwen Kilvert, and **P. Timon McPhearson**. The New School, 2012. Funded: \$325,000.

*Urban Ecology Field Experience*, Civic Engagement Fund Grant, **P. Timon McPhearson**, PI, Tishman Environment and Design Center, The New School for Public Engagement, 2011. Funded: \$10,000.

*Research Assistantship for the Study of Urban Ecosystems*, The New School Provost Office Research Fund, **P. Timon McPhearson**, PI, Tishman Environment and Design Center, The New School, 2010-2014. Funded: \$3,200 each year.

*Assessing Soil Heterogeneity in New York City's Urban Forests*, Eppley Foundation, **P. Timon McPhearson**, PI, Tishman Environment and Design Center, The New School, 2010. Funded: \$40,000.

*Research Assistantship for the Study of Urban Ecosystems*, The New School Provost Office Research Fund, **P. Timon McPhearson**, PI, Tishman Environment and Design Center, The New School, 2010. Funded: \$1,200.

*MillionTreesNYC, Green Infrastructure, and Urban Ecology Research*, The New School Provost Office Academic Events Fund, **P. Timon McPhearson**, PI, Tishman Environment and Design Center, The New School, 2010. Funded: \$7,900.

*Understanding the Dynamic Connections Among Stewardship, Land Cover, and Ecosystem Services in New York City's Urban Forest*, National Science Foundation ULTRA-Ex (Urban Long-term Research Areas) Program. Dana Fisher, PI; Chris Small, Co-PI; Gareth Russell, Co-PI. Senior Personnel: William R. Burch Jr., Lindsay K. Campbell, J. Morgan Grove, Jacqueline W.T. Lu, **P. Timon McPhearson**, Erika S. Svendsen, Fiona S. Watt. Columbia University, 2009. Funded: \$300,000.

*New York City StEM (Stewardship and Environmental Mapping) Project*, Clinton Global Initiative University, Griffin Johnston, co-PI, **P. Timon McPhearson**, co-PI, The New School, 2009. Funded: \$9,000.

*The Nature of Ethics and the Ethics of Nature*, Science and Transcendence Advanced Research Series Research Planning Grant, **P. Timon McPhearson**, PI; Richard Randolph, Co-PI, Columbia University, 2007. Funded: \$20,000.

*Expanding Community Outreach Through Science Education*, Metanexus Local Societies Initiative Supplemental Grant Prize, **P. Timon McPhearson**, PI; Robert Pollack, Co-PI, Columbia University, 2007. Funded: \$10,000.

*Symposia on the Science of Spiritual Questions*, The Fetzer Institute, Robert Pollack, PI; Paul Gailey, Co-PI; **P. Timon McPhearson**, co-author, Columbia University, 2006. Funded: \$195,000.

*Biodiversity and Ecosystem Function*, National Science Foundation, Peter J. Morin, PI, Owen Petchey, Co-PI, **P. Timon McPhearson**, co-author, Rutgers University, 1997. Funded: \$380,000

## **FELLOWSHIPS and AWARDS**

Visiting Research Fellow, Stockholm Resilience Center, Stockholm University, Sweden, 2014

Columbia Science Fellowship, *The Importance of Cooperation in Ecological Communities*, Columbia University, \$160,000, 2005-2007.

Young Scientist Award, \$3000, World Knowledge Dialogues, Crans-Montana, Switzerland, 2006

Bevier Graduate Fellowship, \$5000, Rutgers University, 2003

Dean's Graduate Fellowship, \$3,000, Rutgers University, 2002

National Science Foundation Graduate Research Fellowship, *The Maintenance of Cooperation in Biological Systems*, Rutgers University, \$80,000, 1999-2002

Rutgers University Center for Biodiversity Fellowship, \$3,500, Rutgers University, 1998

Andrew W. Mellon Graduate Fellowship, \$1,800, Organization for Tropical Studies, 1998

National Science Foundation Graduate Research Fellowship, Honorable Mention, 1997

President's Scholarship, \$4,000, Taylor University, 1996

## **ENVIRONMENTAL EDUCATION MEDIA AWARDS**

(for work while at American Museum of Natural History's Science Bulletins)

Official Selection, SCINEMA Festival of Science Film, *Lemurs of Madagascar: Surviving on an Island of Change*, 2006

Finalist, Distinguished Achievement Awards, Best Educational Website: Science, Association of Educational Publishers, 2006

Winner, Award of Excellence, Technology & Learning Magazine, 2005

Winner, Distinguished Achievement Awards, Best Educational Website: Informational, Adult, Association of Educational Publishers, 2005  
Winner, Distinguished Achievement Awards, Best Website Interface Usability, Adult, Association of Educational Publishers, 2005

## SELECTED PRESS/MEDIA

Bradley, Ryan. 2015. The Rat Paths of New York. *New York Times Magazine*, April 23, 2015. <http://www.nytimes.com/2015/04/26/magazine/the-rat-paths-of-new-york.html?ref=magazine&r=2>

Wilkins, Brett. 2015. "Green infrastructure saving major cities water, money and time." <http://www.digitaljournal.com/news/environment/green-infrastructure-saving-major-cities-water-money-and-time/article/426313>

Booth, Laura. "Where the Wild Things Are". *Columbia Spectator*. September, 11, 2014. <http://columbiaspectator.com/eye/2014/09/11/where-wild-things-are>

"Resilience" gains strength as urban planning goal. *CitiScope*. June 17, 2014. <http://citiscopes.org/citignals/2014/resilience-gains-strength-urban-planning-goal>

"Resilience lessons from unexpected places." *Kresge Foundation*. October 18, 2013. <http://kresge.org/about-us/presidents-corner/resilience-lessons-unexpected-places>

Protecting Urban Ecosystems: An Interview with Timon McPhearson. 2012. *Open Spaces/Sacred Places*, September 13, 2012. <http://www.opensacred.org/qas/protecting-urban-ecosystems-an-interview-with-timon-mcphearson>

"Turning Vacant Lots from Eyesore to Opportunity." 2012. *Planetizen*, August 23, 2012. <http://www.planetizen.com/node/58145>

Strickland, Carol. "The chef's art: A new movement is turning meals and hospitality into a new art medium." *Christian Science Monitor*, December 21, 2011. <http://www.csmonitor.com/The-Culture/Arts/2011/1221/The-chef-s-art>

Herz, Nathaniel. "Climate Activists Hit the Streets," *The Nation*, November 9, 2009. <http://www.thenation.com/article/climate-activists-hit-streets>

Schultz, Rosemary. "Queens People Of The Week: Bayside Volunteers Plant Greener Future." *NY1, Television*, November 7, 2011. [http://queens.ny1.com/content/your\\_queens\\_news\\_now/queens\\_person\\_of\\_the\\_week/150345/queens-people-of-the-week--bayside-volunteers-plant-greener-future](http://queens.ny1.com/content/your_queens_news_now/queens_person_of_the_week/150345/queens-people-of-the-week--bayside-volunteers-plant-greener-future)

"Press Clips: "Christian Science Monitor" Coverage of Timon McPhearson and the "New York Mud Pies or A Taste of Climate Change: Urban Reforestation in N.Y.C."

The Dean's Forum, New School for Public Engagement: January 17, 2012. <http://blogs.newschool.edu/deans-forum/2012/01/press-clips-christian-science-monitor-coverage-of-tim-mcphearson-and-the-new-york-mudpies-or-a-taste-of-climate-change-urban-reforestation-in-n-y-c/>

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### **ADVISORY BOARD MEMBER**

- Future Earth Integration with Intergovernmental Panel on Biodiversity and Ecosystem Services (IPBES)
- Urban Biosphere (URBIS) Initiative in partnership with ICLEI (Local Governments for Sustainability), United Nations Convention on Biological Diversity (CBD), UNESCO, and UNHABITAT
- PlaNYC MillionTreesNYC Research and Evaluation Committee, New York, NY
- Urban Assembly School for Green Careers, New York, NY
- Earth School, Something Good in the World, Croton-on-Hudson, NY

### **JOURNAL REVIEWER**

- AMBIO: A Journal of the Human Environment
- Applied Ecology
- Applied Geography
- Biological Conservation
- Canadian Journal of Remote Sensing
- Cities and the Environment
- Ecological Applications
- Ecological Indicators (Managing Guest Editor for Special Issue)
- Ecology and Society
- Ecosystem Services (Guest Editor for Special Issue)
- Ecosphere
- Environmental Science and Policy (Guest Editor for Special Issue)
- Global Environmental Change
- Journal of Applied Ecology
- Journal of Urban Ecology (Editor)
- Journal of Urban Planning and Development

- Journal of Environmental Policy and Planning
- Landscape Ecology
- Network of Conservation Educators and Practitioners
- Urban Ecosystems

## **PROFESSIONAL MEMBERSHIPS**

- American Association for the Advancement of Science
- Association of Environmental Studies and Sciences
- British Ecological Society
- Ecological Society of America
- Ecosystem Services Partnership
- International Society for Ecological Economics
- New York Academy of Science
- New York State Urban Community Forestry Council
- Society for Conservation Biology
- Society for Ecological Restoration
- Scientists Without Borders
- The Nature Conservancy
- US Green Building Council