

TIMON MCPHEARSON



DIRECTOR, URBAN ECOLOGY LAB
CHAIR, ENVIRONMENTAL STUDIES PROGRAM
THE NEW SCHOOL
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My interdisciplinary scholarship, teaching, and community engagement addresses the social-ecological-technical processes that drive urban system dynamics and impact human wellbeing in order to better plan and design more equitable, resilient, and sustainable cities. My research utilizes both empirical (e.g. Big Data analysis, experiments) and theoretical approaches (social-ecological systems and resilience theory) to advance urban systems research to support development of a new urban systems science for improved urban planning, policy, design, and management at local and landscape scales.

My research focuses on five overlapping areas:

- (1) Social-ecological-technical systems and urban resilience
- (2) Comparative urban ecology
- (3) Ecosystem-based adaptation to climate change in cities
- (4) Effects of policy and management on urban ecosystem dynamics and biodiversity
- (5) Mapping, modeling, and valuation of urban biodiversity and ecosystem services

THE
NEW
SCHOOL

URBAN ECOLOGY LAB

EDUCATION

- PhD, Ecology, Evolution, and Natural Resources, Rutgers University, 2004
- B.S., Environmental Biology, Taylor University, 1997

PROFESSIONAL EXPERIENCE

Research Fellow, Cary Institute of Ecosystem Studies, 2017-present

Associate Professor of Urban Ecology (w/tenure), *Environmental Studies, The New School*, 2016-present

Chair, *Environmental Studies Program, The New School*, 2015-present

Assistant Professor of Urban Ecology, *Environmental Studies, The New School*, 2008-2016

Research Faculty, *Tishman Environment and Design Center, 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

Associate Professor, *Green Roof Ecology*

Advanced undergraduate field based course in collaboration with Brooklyn Grange on Vice Media green roof site in Brooklyn
Spring 2016 - present

Assistant Professor, *Current Issues in Climate Change*

Advanced undergraduate urban climate change and resilience course at The New School, Spring 2015 - present

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- 2014

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* (formerly *Principles of 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

PUBLICATIONS: PEER REVIEWED JOURNAL ARTICLES

McPhearson, Timon, Xue David Iwaniec, and Xuemei Bai. "Positives visions for
guiding transformations toward desirable urban futures." *Current Opinion in
Environmental Sustainability* (Invited for Special Issue), accepted.

Romero-Lankao, Patricia, **Timon McPhearson**, and Debra J. Davidson. 2017. "The food-energy-water nexus and urban complexity." *Nature Climate Change*, 7:233-235, doi:10.1038/nclimate3260

McPhearson, Timon, Sue Parnell, David Simon, Owen Gaffney, Thomas Elmqvist, Xuemei Bai, Debra Roberts, Aromar Revi. 2016. "Scientists must have a say in the future of cities." *Nature*, 538:165-166.

Groffman, Peter, Cadenasso, Mary, Cavender-Bares, Jeannine, Childers, Daniel, Grimm, Nancy, Grove, Morgan, Hobbie, Sarah, Hutyrá, Lucy, Jenerette, Darrel, **McPhearson, Timon**, Pataki, Diane, Pickett, Steward, Pouyat, Richard, Rosi-Marshall, Emma, Ruddell, Benjamin. 2017. "Moving toward an Urban Systems Science." *Ecosystems*, DOI: 10.1007/s10021-016-0053-4

Gittleman, Mara, Carson Famer, Peleg Kremer, and **Timon McPhearson**, Peleg Kremer, and Carson Farmer. 2017. "Estimating Stormwater Runoff for Community Gardens in New York City." *Urban Ecosystems*, DOI 10.1007/s11252-016-0575-8

Bennett, E.M., M. Solan, R. Biggs, **T. McPhearson**, A. Norstrom, P. Olsson, L. Pereira, G.D. Peterson, C. Raudsepp-Hearne, F. Biermann, S. R. Carpenter, E. Ellis, T. Hichert, V. Galaz, M. Lahsen, M. Milkoreit, B. Martin-Lopez, K. A. Nicholas, R. Preiser, G. Vince, J. Vervoort, J. Xu. "Bright Spots: Seeds of a Good Anthropocene." *Frontiers in Ecology and the Environment*, 14(8): 441–448, doi:10.1002/fee.1309

Larondelle, Neele, Dagmar Haase, Zoé A. Hamstead, Peleg Kremer und **Timon McPhearson**. 2016. "Eine neue Stadtstrukturklassifikation zur Analyse der Beziehung zwischen ökologischer Funktion, Bebauung und Bodenbedeckungsstruktur: Eine vergleichende Studie von Berlin und New York City." *Stadtforchung Und Statistik* 2:65-77.

McPhearson, Timon, Dagmar Haase, Nadja Kabisch, Åsa Gren. 2016. "Advancing understanding of the complex nature of urban systems." *Ecological Indicators* 70: 566–573, <http://dx.doi.org/10.1016/j.ecolind.2016.03.054>

Frantzeskaki, Niki, Nadja Kabisch and **Timon McPhearson**. 2016. "Advancing urban environmental governance: Understanding theories, practices and processes shaping urban sustainability and resilience." *Environmental Science and Policy* (Special Issue), 62:1-6, <http://dx.doi.org/10.1016/j.envsci.2016.05.008>

Kremer, Peleg, Zoé A. Hamstead, and **Timon McPhearson**. 2016. "The Value of Urban Ecosystem Services: A Spatially Explicit Multicriteria Analysis of Landscape Scale Valuation Scenarios in NYC." *Environmental Science and Policy* (Special Issue), <http://dx.doi.org/10.1016/j.envsci.2016.04.012>

McPhearson, Timon, S.T.A. Pickett, N. Grimm, J. Niemelä, M. Alberti, T. Elmqvist, C. Weber, D. Haase, J. Breuste, and S. Qureshi. 2016. "Advancing Urban Ecology Toward a Science of Cities." *BioScience* 66(3):198-212, doi: 10.1093/biosci/biw002.

Kremer, Peleg, Zoé Hamstead, Dagmar Haase, **Timon McPhearson**, Niki Frantzeskaki, Erik Andersson, Nadja Kabisch, Neele Larondelle, Emily Lorange Rall,

Gina Avlonitis, Christine Bertram, Francesc Baró, Erik Gómez-Baggethun, Asa Gren, Rieke Hansen, Anna Kaczorowska, Jaan-Henrik Kain, Jakub Kronenberg, Johannes Langemeyer, Pamela Muehlmann, Stephan Pauleit, Katrin Rehdanz, Maria Schewenius, Chantal van Ham, Annette Voigt, Daniel Wurster, Thomas Elmqvist. 2016. "Key insights for the future of urban ecosystem services research." *Ecology and Society*, 21(2):29 <http://dx.doi.org/10.5751/ES-08445-210229>

Hamstead, Zoé A., Neele Larondelle, Peleg Kremer, **Timon McPhearson**, and Dagmar Haase. 2015. "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* (Special Issue) 70 (2016) 574–585, <http://dx.doi.org/10.1016/j.ecolind.2015.10.014>

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 Shutters, Weiqi Zhou. 2015. "The New Global Urban Realm: Complex, Connected, Diffuse, and Diverse Social-Ecological Systems." *Sustainability* (Special Issue) 7: 5211-5240, doi:10.3390/su705211

McPhearson, Timon, Erik Andersson, Thomas Elmqvist, and Niki Frantzeskaki. 2015. "Resilience Of and Through Urban Ecosystem Services," *Ecosystem Services* (Special Issue) 12:152-156, 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>

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>

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

Haase, Dagmar, Neele Larondelle, Erik Andersson, Martina Artmann, Sarah Borgström, Jürgen Breuste, Erik Gomez-Baggethun, Ása 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, 21 pp.

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.

PUBLICATIONS : MANUSCRIPTS (In preparation)

Elmqvist, Thomas, Niki Frantzeskaki, Erik Andersson, **Timon McPhearson**, Carle Folke, and Kazuhiko Takeuchi. "On urban resilience and sustainability: The need to resolve common misconceptions." *Frontiers in Ecology and Evolution*, submitted.

Manjana Milkoreit, Erle Ellis, **Timon McPhearson**, Elena Bennett, Frank Biermann, Victor Galaz, Uno Svedin. "The Good Anthropocene vs. Sustainable Development: How to think about a desirable future?" *Sustainability Science*, submitted.

Illeva, Rositsa and **Timon McPhearson**. Understanding the Benefits of Urban Parks Through Social Media Data: Challenges and Opportunities." *Global Environmental Change*, submitted

Donahue, Marie, Bonnie L. Keeler, Spencer A. Wood, David Fisher, Zoé A. Hamstead, and **Timon McPhearson**. "Using social media to understand drivers of urban park visitation in the Twin Cities, MN." *Landscape and Urban Planning*, in prep.

Hölscher, Katharina, Niki Frantzeskaki, **Timon McPhearson**, and Derk Loorbach. "Climate governance capacities for sustainability and resilient transformations in New York City." *Habitat International*, in prep

Keeler, Bonnie L., Marie Donahue, **Timon McPhearson**, Perrine Hamel, Katie Arkema, Graham MacDonald, Greg Brauman, Stuart Finlay. "Where is the value of nature in the city?" *Proceedings of the National Academy of Sciences*, in prep.

Hamstead, Zoé, **McPhearson, Timon**, Spencer Wood, Peleg Kremer, David Fisher, Rositsa Illeva, and Bonnie Keeler. "Determinants of urban park use: A social media analysis in New York City", *Proceedings of the National Academy of Sciences*, in prep.

Hamstead, Zoé A., Farmer, Carson. J. Q., and **McPhearson, Timon**. Modeling intra-urban land change as a driver of micro-urban heat island in New York City.

Femke Reitsma, Thomas Elmqvist, and **Timon McPhearson**. "Measuring and Representing Ecosystem Services for Quantitative Analysis." *Ecological Modeling*, in revision.

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.

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

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

PUBLICATIONS : BOOKS

Elmqvist, T., Bai. X., Frantzeskaki, N., Griffith, C., Maddox, D., **McPhearson, T.**, Parnell, S., Romero-Lankao, P., Simon, D., Watkins, M (eds). 2017. "Urban Planet." Cambridge University Press. ISBN: 9781107196933, Forthcoming

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.

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.

PUBLICATIONS : PEER REVIEWED BOOK CHAPTERS

McPhearson, Timon, Madhav Karki, Cecilia Herzog, Helen Santiago Fink, Luc Abbadie, Peleg Kremer, Christopher M. Clark, Matthew I. Palmer, Katia Perini, and Marielle Dubbeling. "Urban Ecosystems and Biodiversity." In Cynthia Rozensweig, Bill Solecki, et al. Eds, *Urban Climate Change Research Network Second Assessment Report on Climate Change in Cities (ARC3-2)*, 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* (eds. Dirk Loorbach, Niki Frantzeskaki, et al.), forthcoming from Springer.

Alberti, Marina, **Timon McPhearson**, and Andrew Gonzalez. 2017. "Embracing

urban complexity,” in Elmqvist, T. et al (eds), *Urban Planet*, forthcoming from Cambridge University Press

Pereira, Laura M., Elena Bennett, ReINETte (Oonsie) Biggs, Garry Peterson, **Timon McPhearson**, Albert Norström, Per Olsson, Rika Preiser, Ciara Raudsepp-Hearne, Joost Vervoort. 2017. “Seeds of the future found in the present,” in Elmqvist, T. et al (eds), *Urban Planet*, forthcoming from Cambridge University Press

Depietri, Yaella and **Timon McPhearson**. “Integrating the grey, green, and blue in cities: Nature-based solutions for climate change adaptation and risk reduction,” in Nadja Kabisch et al., Eds, *Nature-based Solutions to Climate Change in Urban Areas*, forthcoming from Springer.

Erik Andersson, Sara Borgström, **Timon McPhearson**. 2017. “Double insurance in dealing with extremes – Ecological and social factors for making nature based solutions last,” in Nadja Kabisch et al., Eds, *Nature-based Solutions to Climate Change in Urban Areas*, forthcoming from Springer.

Cole, Laura, **Timon McPhearson**, Cecilia Herzog, and Alex Kudryavtsev. “Urban Green Infrastructure,” in A. Kudryavtsev and M. Krasny, Eds, *Urban Environmental Education Review*, forthcoming from Cornell University Press.

McPhearson, P Timon, Michael Feller, Alexander Felson, Richard Karty, Jacqueline WT Lu, Matthew I Palmer, Tim Wenskus. 2016. “Assessing the effects of the urban forest restoration effort of MillionTreesNYC on the structure and functioning of New York City ecosystems,” in *Urban Forests: Ecosystem Services and Management* (J. Blum, ed), Apple Academic Press.

Rosenzweig C., W. Solecki, P. Romero-Lankao, S. Mehrotra, S. Dhakal, T. Bowman, and S. Ali Ibrahim (Contributing authors include **Timon McPhearson**). 2015. *ARC3.2 Summary for City Leaders*. Urban Climate Change Research Network. Columbia University. New York.

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.

ADDITIONAL SCHOLARLY PUBLICATIONS

Hamstead, Zoé, **Timon McPhearson**, and Adam Glenn. 2016. Climate resilience means meaningfully engaging vulnerability communities in Urban Planning Processes. *The Nature of Cities*, <https://www.thenatureofcities.com/2016/12/07/climate-resilience-means-meaningfully-engaging-vulnerable-communities-urban-planning-processes/>

McPhearson, Timon, Sue Parnell, David Simon, Thomas Elmqvist, Xuemei Bai, Owen Gaffney, Debra Roberts, and Aromar Revi. 2016. "Building Urban Science to Achieve the New Urban Agenda." *The Nature of Cities*, <https://www.thenatureofcities.com/2016/10/24/building-urban-science-to-achieve-the-new-urban-agenda/>

Cole, Laura, **Timon McPhearson**, Cecilia Herzog, and Alex Russ. 2016. "Accessing Urban Environmental Education Opportunities Via Green Infrastructure," *The Nature of Cities*, <https://www.thenatureofcities.com/2016/07/03/accessing-urban-environmental-education-opportunities-via-green-infrastructure/>

Olander, Lydia, Gregory W. Characklis, Patrick Comer, Micah Efron, John Gunn, Tom Holmes, Robert Johnston, James Kagan, William Lehman, John Loomis, **Timon McPhearson**, Anne Neale, Lauren Patterson, Leslie Richardson, Martin Ross, David Saah, Samantha Sifleet, Keith Stockmann, Dean Urban, Lisa Wainger, Robert Winthrop, and David Yoskowitz. 2016. "Data and Modeling Infrastructure for

National Integration of Ecosystem Services into Decision Making: Expert Summaries.” NESP WP 16-02. Durham: National Ecosystem Services Partnership.

McPhearson, Timon. 2015. “Urban social, ecological, and technical-built system (SETS) resilience”. *The Nature of Cities*, <http://www.thenatureofcities.com/2015/05/19/taking-resilience-out-of-the-realm-of-metaphor-how-do-you-measure-resilience-in-cities-how-would-you-know-if-your-city-or-your-community-was-resilient/>

Also republished in:

- SustainableCitiesCollective.com, <http://sustainablecitiescollective.com/nature-cities/1074821/taking-resilience-out-realm-metaphor-how-do-you-measure-resilience-cities-how->

McPhearson, Timon and Victoria 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/

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.5.1fc8315a135cb03b5592653.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, P. Timon. 1998. "Immature leaves of *Dussia macrophyllata* deter herbivory by the leaf-cutter *Atta cephalotes*." *OTS Tropical Biodiversity* 98-10: 82-86.

RECENT/SELECTED INVITED LECTURES *presenter

McPhearson, Timon*. 2017. "Resilient Cities, Livable Futures," Keynote and panel moderator with Dan Zarrilli, Cecil Corbin-Mark, Jennifer Bolstad, and Walter Meyer for "Resilient Cities, Livable Futures" Urban Resilience to Weather-related Extremes Sustainability Research Network, The New School, New York, NY.

McPhearson, Timon*. 2017. "A social-ecological-technical systems approach to urban ecosystem services." The Nature Conservancy Long Island, Cold Springs Harbor, NY.

McPhearson, Timon*. 2017. Identifying locations for "cool corridors" to reduce heat vulnerability in NYC." NYC Mayor's Office of Recovery and Resiliency and NYC Dept. of Parks & Recreation, City Hall, New York, NY.

McPhearson, Timon*. 2017. "A social-ecological-technical systems approach to urban ecosystem services." UPMC, CNRS, Sorbonne, Paris, France.

McPhearson, Timon*. 2017. A SETS approach to Modeling Urban Futures." Urban Resilience to Weather-related Extremes Sustainability Research Network (URExSRN), Scenarios Workshop, San Juan, Puerto Rico.

McPhearson, Timon*. 2017. "Drivers of and Solutions to Heat Impacts in NYC." NYC Dept. of Health and Mental Health (DOHMH), New York, NY.

McPhearson, Timon*. 2016. "Urban systems, SDGs, and Big Data." Quantified Planet, Keynote presentation, Presidio, San Francisco, CA.

McPhearson, Timon*. 2016. "The NYC Team Update." Urban Resilience to Weather-related Extremes Sustainability Research Network (URExSRN), Scenarios Workshop, Phoenix, AZ.

McPhearson, Timon*. 2016. "Urban Acceleration and Climate Resilience: Leveraging Ecosystems for Equity, Resilience, and Sustainability." Oikos NYC, The New School, New York, NY.

McPhearson, Timon*. 2016. "Sustainapalooza: Introduction." Sustainapalooza III, The New School, New York, NY.

McPhearson, Timon*. 2016. "The role of science in the New Urban Agenda." UN Habitat III, HabitatXChange, Quito, Ecuador.

McPhearson, Timon*. 2016. "Linking knowledge to policy: How can the scientific community contribute to the New Urban Agenda after Quito?" UN Habitat III, HabitatXChange, Quito, Ecuador.

McPhearson, Timon*. 2016. "Building Urban Resilience to Extreme Events: Lessons Across Cultures." UN Habitat III, HabitatXChange, Quito, Ecuador.

McPhearson, Timon*. 2016. "Urban Planet: Book Launch." UN Habitat III, HabitatXChange, Quito, Ecuador.

McPhearson, Timon*. 2016. "Nature-based solutions for cities: Leveraging urban ecosystems for improving equity, resilience, and sustainability." EDF Alliance (Keynote), Columbia University, New York, NY.

McPhearson, Timon*, Taylor Drake, Chris Hepner, and Josh Snow. 2016. "Connect-the-Dots: Ecologically based designed solutions for network urban open space." Parks Without Borders, The New School, New York, NY.

Hamstead, Zoé and **Timon McPhearson**. 2016. "Using crime data for scientific analysis." NYC Crime Map Data Round Table, The New School, New York, NY

McPhearson, Timon*. 2016. "Climate change resilience in NYC: Improving Social Equity, Resilience and Sustainability." Board of Trustees, The New School, New York, NY.

McPhearson, Timon*. 2016. "Environmental Studies: Design and Ecology Research." Lang Board of Governor's, The New School, New York, NY.

McPhearson, Timon*, Taylor Drake, Chris Hepner, and Josh Snow. 2016. "Connect-the-Dots: Ecologically based designed solutions for network urban open space." Tishman Environment and Design Center, The New School, New York, NY.

McPhearson, Timon*. 2016. "The value of urban ecosystems for improving equity, resilience, and sustainability." Natural Areas Conservancy, Advisory Board, Nature Goals 2050, Columbia University, New York, NY.

McPhearson, Timon*. 2016. Urban resilience: Social, ecological, and infrastructural resilience to climate extremes in New York City," for "Building resilience in complex urban systems," Provost Office, Urban Environment Sustainability, The New School, New York, NY.

McPhearson, Timon*. 2016. "Nature-based solutions for cities: Leveraging urban ecosystems for improving equity, resilience, and sustainability." Berlin KOSMOS Lecture (Keynote), Humboldt University, Berlin, Germany

McPhearson, Timon*. 2016. "Urban system complexity: Classification of urban system structure for understanding function." KOSMOS Workshop, Humboldt University, Berlin, Germany

McPhearson, Timon*. 2016. "This changes everything" (panelist), The New School, New York, NY.

McPhearson, Timon* and Zoé Hamstead*. 2015. "Social Media and other "Big Data" for Advancing a Systems Understanding of Benefits of Urban Green Space." USDA Forest Service, NYC Dept of Parks & Recreation, Urban Field Station, Science of the Living City Seminar Series, New York, NY.

McPhearson, Timon*. 2015. "Nature-based solutions for cities: Leveraging urban ecosystems for improving equity, resilience, and sustainability." New York University, New York, NY.

McPhearson, Timon*. 2015. "Modeling Urban Complexity: Ecosystem Services of Green Infrastructure in New York City." NYC Dept. of Environmental Protection, New York, NY.

McPhearson, Timon*. 2015. "Ecology Of And For The City: Investing In Urban Nature For Resilience, Social Equity, And Livability." Urban Nature Symposium, Finnish Cultural Institute, New York, The New School, New York, NY.

McPhearson, Timon*. 2015. "Building Urban Resilience in New York City", National Science Foundation, Urban Resilience to Extreme Weather Related Events Sustainability Research Network (URExSRN) Project, New York City Kick-off, The New School, New York, NY.

McPhearson, Timon*. 2015. Nature-based Solutions in Cities: Leveraging Ecosystems for Improving Equity, Resilience, and Sustainability." EDF Alliance, Columbia University, New York, NY.

McPhearson, Timon*. 2015. "Nature-based Solutions for Urban Climate Resilience in New York City." New York City Mayor's Office of Recovery and Resilience, Urban Heat Island Working Group, New York, NY.

McPhearson, Timon*. 2015. Ecosystem-based Adaptation to Climate Change in Cities." Invited panelist at Launch of the Urban Climate Change Research Network (UCCRN) European Hub in partnership with the Centre National de la Recherche Scientifique, the Pierre and Marie Curie University, and l'Atelier International du Grand Paris, Paris, France, a side-event to the "Our Common Future Under Climate Change" part of the lead-up to COP21.

McPhearson, Timon*. 2015. "Natural capital in cities: A critical resource for improving equity, resilience, and sustainability." The Nature Conservancy, New York, New York.

McPhearson, Timon*. 2015. "Natural capital in cities: A critical resource for improving equity, resilience, and sustainability." Portland State University, Portland, Oregon.

McPhearson, Timon*. 2015. Urban Biodiversity and Ecosystem Services: Future Earth Urban Platform." Global Biodiversity Monitoring workshop, Future Earth, Yale University, New Haven, Connecticut.

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

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. Discussant, "The Lowline", Urban Studies and Environmental Studies, The New School, New York, New York.

McPhearson, Timon*. 2015. "Benefits of urban natural capital for human health and well-being," Future Earth Urban Platform workshop, National Center for Atmospheric Research (NCAR), Boulder, Colorado.

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. *Moderator*, “Challenges in Balancing Conservation and Development in Eastern Himalaya, a Biodiversity Hotspot,” India China Institute, The New School, New York, 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. “Avoiding social-ecological system traps by accounting for both ecosystem services and disservices in cities.” Karklö Workshop, Cornell University, Ithaca, NY.

McPhearson, Timon*. 2014. Invited participant, *Urban Sustainability Research Coordination Network* workshop, National Science Foundation, Arizona State University, Tempe, AZ.

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,” SESYNC*, Annapolis, Maryland, 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", *1st 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 2nd 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)

Depietri, Yaella*, **Timon McPhearson**, and Khila Dahal. 2017. "Multi-hazard risk assessment in a coastal megacity: Identifying hotspots for ecosystem based climate adaptation in New York City." Association of American Geographers, Annual Conference, Boston, MA.

Donahue, Marie*, Bonnie L. Keeler, Spencer A. Wood, David Fisher, Zoé A. Hamstead, **Timon McPhearson**. 2016. "Using social media to Assess urban park visitation and Recreation Services." ACES Annual Conference, Florida.

Hamstead, Zoé*, Carson Farmer, and **Timon McPhearson**. 2016. Using remote sensing and social data to link heat exposure and susceptibility in New York City, Association of American Geographers (AAG) Annual Meeting, San Francisco, CA.

Hölscher, Katharina*, Niki Frantzeskaki, **Timon McPhearson**, Derk Loorbach. 2016. "Tackling high-end climate change as transformation challenge: capacities for transformative climate governance in New York City", Urban Transitions Global Summit, Shanghai, China.

Hölscher, Katharina*, Niki Frantzeskaki, **Timon McPhearson**, Derk Loorbach. 2016. "Capacities for transformative climate governance in New York City", INOGO V workshop on 'Innovative urban governance for mitigation and adaptation: Mapping, exploring and interrogating,' Amsterdam, The Netherlands.

Hölscher, Katharina*, Niki Frantzeskaki, **Timon McPhearson**, and Derk Loorbach. 2016. "Capacities for transformative climate governance in Rotterdam and New York City." Adaptation Futures Conference, Rotterdam, the Netherlands.

Grimm, Nancy B.*, Charles L. Redman, Mikhael Chester, David Iwaniec, **Timon McPhearson**, Thaddeus Miller, and Tischa Muñoz-Erickson. 2015. Developing a concept of social-ecological-technological systems to characterize resilience of urban areas and infrastructure to extreme events. Complex Systems Symposium, Tempe, AZ.

Hamstead, Zoé*, Carson Farmer, and **Timon McPhearson**. 2015. "A framework for linking complexity science, urban ecology and environmental justice." Complex Systems Society (CCS), Annual Meeting, Phoenix, AZ.

Bennett, Elena*, Reinette (Oonsie) Biggs, **Timon McPhearson**, Albert Norström, Ciara Raudsepp-Hearne, Laura Pereira, Garry Peterson, Rika Preiser, Joost Vervoort. 2015. "Seeds of a Good Anthropocene." Programme on Ecosystem Change and Society, Stellenbosch, South Africa.

McPhearson, Timon*. 2015. "Urban resilience: Linking species richness and traits for assessing ecological resilience." Programme on Ecosystem Change and Society, Stellenbosch, South Africa.

McPhearson, Timon*, Erik Andersson, Julie Goodness, Zoé Hamstead, and Thomas Elmqvist. 2015. "Urban Ecosystem Services Session (B8): Approaches, tools and Frameworks for dealing with urban complexity." Ecosystem Services Partnership, Urban Biome Expert Group, Stellenbosch, South Africa.

McPhearson, Timon*. 2015. "Complex Urban Systems: Modeling Urban Ecosystems for Improving Livability, Sustainability, and Resilience." Ecosystem Services Partnership, Urban Biome Expert Group, Stellenbosch, South Africa.

Chester, Mikhael*, Nancy Grimm, Charles Redman, Thaddeus Miller, **Timon McPhearson**, Tischa Munoz-Erickson, and David Chandler. 2015. "Urban Resilience to Extreme Events: UREx Sustainability Research Network." American Geophysical Union, San Francisco, CA.

Chester, Mikhael V*, Nancy B Grimm, Charles Redman, Thaddeus Miller, **Timon McPhearson**, Tischa Munoz-Erickson, and David G Chandler. 2015. "Developing a concept of social-ecological-technological systems to characterize resilience of urban areas and infrastructure to extreme events." American Geophysical Union Fall Meeting, San Francisco, CA.

McPhearson, Timon*. 2015. "Urban Ecosystem Services for Livability, Equity, Resilience, and Sustainability." Ecological Society of America, Annual Meeting, Baltimore, MD.

Grimm, Nancy*, Charles L. Redman, Mikhail Chester, David Iwaniec, **Timon McPhearson**, Thaddeus Miller, and Tischa Muñoz-Erickson. 2015. "Developing a concept of social-ecological-technological systems to characterize resilience of urban areas and infrastructure to extreme events." Ecological Society of America, Annual Meeting, Baltimore, MD.

Hamstead, Zoé*, Peleg Kremer, **Timon McPhearson**. 2015. "Advancing Ecosystem Services Assessment for Urban Planning." Ecological Society of America, Annual Meeting, Baltimore, MD.

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, 2nd 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, 7th 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**, Zoé 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-Baggethun. 2013. "Towards an Integrated Framework for Investigating Urban Ecosystem Services", Symposium Chair and presenter, *Making Ecosystem Services Count*, 6th 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, 1st 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, 1st 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, 1st 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, 1st 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, 1st 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, 1st 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." *4th 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." *4th 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." *4th 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." *4th 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." *4th 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." *4th 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 11th 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.

*Conference presentations from 2010 and earlier available upon request

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

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

Linking Extreme Heat, Human Health, and Ecosystem Services, Integrating Human Health and Well-Being with Ecosystem Services, Environmental Protection Agency, (EPA STAR-A2), PI **Timon McPhearson**, Co-PI Zoé Hamstead, Co-PI Aurash Khawarзад. Recommended for Funding (in process): \$400,000.

Enabling green-blue infrastructure in complex social-ecological regions - system solutions to wicked problems (ENABLE), Biodiversa and European Commission, PI Erik Andersson, Co-PI **Timon McPhearson**. Funded: \$3,000,000.

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

Connect-the-Dots, Tishman Environment and Design Center, ReNew School Project 14k, PI **Timon McPhearson**. Funded: \$10,000.

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.

Livable Urban Futures, Future Earth, Urban Cluster, PI Thomas Elmqvist, Co-PI **Timon McPhearson** with others. 2014. Funded: \$100,000.

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: €75,000.

Global Biodiversity Monitoring, Prediction and Reporting, Future Earth, Urban Cluster, PI Walter Jetz, Co-PI **Timon McPhearson** with others. 2014. Funded: €75,000.

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.

Turning Vacant Acres Into Community Resources, RSF Social Finance, PI Timon McPhearson. 2014. Funded: \$2500.

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.

*Mutual Mentoring Grant, The New School Provost Office, PI **Timon McPhearson** and Nevin Cohen, 2012. Funded: \$5000*

*Initiative for Educational Innovation in University-Community Partnerships, Rockefeller Foundation, Cultural Innovation Fund, Michele Kahane, PI, and Co-PIs: Karen Demoss, **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 **Timon McPhearson**. The New School, 2012. Funded: \$325,000.*

*Urban Ecology Field Experience, Civic Engagement Fund Grant, **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, **Timon McPhearson**, PI, Tishman Environment and Design Center, The New School, 2010-present. Funded: \$3,200 each year (expanded to \$5,200/yr in 2015).*

*Assessing Soil Heterogeneity in New York City's Urban Forests, Eppley Foundation, **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, **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, **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

Distinguished University Teaching Award, The New School, New York, 2017

Visiting Research Fellow, Stockholm Resilience Center, Stockholm University, Sweden, 2017

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

2017

"Grappling with inequality in food, energy and water research", **Future Earth Blog**, 2017. <http://www.futureearth.org/blog/2017-apr-4/grappling-inequality-food-energy-and-water-research>

"New School Students Research and Rethink Rooftop Urban Gardens," **The New School**, 2017. <http://blogs.newschool.edu/news/2017/04/new-school-students-research-and-rethink-rooftop-urban-gardens/#.WOfedFKZNE7>

"NYC's Climate Research Resources are Melting Faster than the Ice Caps", **The Village Voice**, 2017. <http://www.villagevoice.com/news/nyc-s-climate-research-resources-are-melting-faster-than-the-ice-caps-9721047>

"The Most Important Modern Farmer Might Be The Urban Cowboy," **Good**, 2017. <https://food.good.is/articles/urban-gardening-versus-agritecture>

2016

"Five ways to plan cities of the future," **The Guardian**, 2016. <https://www.theguardian.com/global-development-professionals-network/2016/dec/22/five-ways-to-plan-the-cities-of-the-future> "

"Live Q&A: How shall we plan the cities of the future?," **The Guardian**, 2016.

"<https://www.theguardian.com/global-development-professionals-network/2016/nov/21/live-qa-how-shall-we-plan-the-cities-of-the-future>

"Envision an Urban Ecology," **The New School**, 2017. <http://www.newschool.edu/forces/?id=17179873752>

"Visualizing the Toughest Challenges Facing Global Cities," **CityLab**, 2016. <http://www.citylab.com/tech/2016/10/the-importance-of-data-visualization-at-habitat-iii/504566/> **CityLab Latino** <http://www.univision.com/noticias/citylab-vida-urbana/como-los-mapas-interactivos-estan-ayudando-a-las-ciudades-a-entender-sus-problemas>

Science, cities and innovation in the human age,” **The Guardian**, 2016.
https://www.theguardian.com/global/2016/oct/16/science-cities-and-innovation-in-the-human-age?CMP=share_btn_tw

“Here’s How The World Can Adapt To The Rapid Rise Of Cities,” **Huffington Post**, 2016. http://www.huffingtonpost.com/entry/united-nations-new-urban-agenda-cities_us_580a9f51e4b02444efa39b16

“Scientists must have a say in cities,” **The John Batchelor Show**, 2016.
https://audioboom.com/posts/5267758-scientists-must-have-a-say-in-the-future-of-cities-timon-mcpherson-newschool-nature-timonmcphearson?utm_campaign=detailpage&utm_content=retweet&utm_medium=social&utm_source=twitter and <https://www.youtube.com/watch?v=na8E2rH3Dh8>

“Seeking a Future New York in Weeds,” **Urban Omnibus**, 2016.
<http://urbanomnibus.net/2016/05/seeking-a-future-new-york-in-weeds/>

“The farm upstairs: From Brooklyn to Chicago, high-tech agriculture and mother nature meet on urban rooftops,” **Curbed**, 2016.
<http://www.curbed.com/2016/8/16/12462190/rooftop-farm-brooklyn-grange-gotham-greens>

“Urban Policy Blog Spotlights Harlem Heat Project,” **AdaptyNY**, 2016.
<http://www.adaptny.org/2016/12/07/urban-policy-blog-spotlights-harlem-heat-project/>

“For more resilient cities, think small(er) and look to vacant lots,” **Berkeley News**, 2016. <http://news.berkeley.edu/2016/11/01/for-more-resilient-cities-think-smaller-and-look-to-vacant-lots/>

Wicked Habitat! Where are the urban scientists? **Medium, NYU CUSP**, 2016.
<https://medium.com/cusp-civic-analytics-urban-intelligence/wicked-habitat-7daf3dc3c857#.bydprlyt9>

“Platform needed to provide scientific input on New Urban Agenda implementation, researchers say,” **CitiScope**, 2016.
<http://citiscopes.org/habitatIII/news/2016/10/platform-needed-provide-scientific-input-new-urban-agenda-implementation>

“Science is critical for understanding the complexity of cities,” **Future Earth**, 2016.
<http://www.futureearth.org/blog/2016-oct-12/science-critical-understanding-complexity-cities>

“UN Adopts New Urban Agenda to Tackle Rapid Urbanisation,” **The Wire**, 2016.
<http://thewire.in/74827/un-adopts-new-urban-agenda-to-tackle-rapid-urbanisation/>

Community-generated data crucial for implementing New Urban Agenda, **CitiScope**, 2016. <http://citiscopes.org/habitatIII/news/2016/10/community-generated-data-crucial-implementing-new-urban-agenda>

“Boom in Urban Population Will Make Climate Change Worse,” **TruthDig**, 2016. http://www.truthdig.com/report/item/urban_population_booms_will_make_climate_change_worse_20161027

“Urbanisation: How do we get it right?,” **Sustainable Cities**, 2016. <http://sustainablecities.org.nz/2016/12/urbanisation/>

“UN 도시 어젠다에 과학이 없다,” **The Science Times**, 2016. <http://www.sciencetimes.co.kr/?news=un-%EB%8F%84%EC%8B%9C-%EC%96%B4%EC%A0%A0%EB%8B%A4%EC%97%90-%EA%B3%BC%ED%95%99%EC%9D%B4-%EC%97%86%EB%8B%A4>

“Nations agree on global road map to steer breakneck urbanization,” **Reuters**, 2016. <http://www.reuters.com/article/us-un-landrights-cities-agenda-idUSKCN12K2SR> and <http://news.trust.org/item/20161020230054-3cvvc/>

“Nations agree on global road map to steer breakneck urbanization,” **Business Insider**, 2016. <http://www.businessinsider.com/r-nations-agree-on-global-road-map-to-steer-breakneck-urbanization-2016-10>

“Data capacity looms over implementation of urban development goals,” **CitiScope**, 2016. <http://citiscopes.org/habitatiii/news/2016/11/data-capacity-looms-over-implementation-urban-development-goals>

“The Struggle Over Data Capacity Needed To Achieve New Urban Agenda,” **Technocracy News and Trends**, 2016. <https://www.technocracy.news/index.php/2016/12/13/the-struggle-over-data-capacity-needed-to-achieve-new-urban-agenda/>

“Population boom adds to city threats,” **Daily Sun**, 2016. <http://www.daily-sun.com/post/178826/Population-boom-adds-to-city-threats-> **Eco-Business**, <http://www.eco-business.com/news/population-boom-adds-to-city-threats/> **Climate News Network** <http://climatenewsnetwork.net/population-boom-adds-to-city-threats/> **The News Today**, http://www.newstoday.com.bd/index.php?option=details&news_id=2455852&date=2016-10-29 **UrbanLab**, <http://urbanlab.eu/feed/population-boom-adds-to-city-threats-2/>

“A tudósoknak kevés a beleszólása a városok jövőjébe,” **Greenfo**, 2016. <http://greenfo.hu/hirek/2016/10/18/a-tudosoknak-keves-a-beleszolasa-a-varosok-jovojebe?referrer=rss>

Comment on the final text of the New Urban Agenda from the scientific community’s point of view, **United Nations Web TV**, 2016. <http://webtv.un.org/watch/daily-press-briefing-press-conference-habitat-iii/5178528480001>

“Implementar la Nueva Agenda Urbana para enfrentar los desafíos de la rápida urbanización,” **ONU Habitat**, 2016. <http://es.unhabitat.org/implementar-la-nueva-agenda-urbana-para-enfrentar-los-desafios-de-la-rapida-urbanizacion/>

“Fund seeks to strengthen climate action in cities,” **CitiScope**, 2016.
<http://citiscopes.org/habitatIII/news/2016/10/fund-seeks-strengthen-climate-action-cities>

“Climate Change News: United Nations Urban Expansion Meeting Set To Begin,” **International Business Times**, 2016. <http://www.ibtimes.com/climate-change-news-united-nations-urban-expansion-meeting-set-begin-2430573>

“Scientists call for greater say on global plan for future cities,” **Phys.org**, 2016.
<https://phys.org/news/2016-10-scientists-greater-global-future-cities.html>

“Scientists disappointed with New Urban Agenda agreed on by nations at Habitat III summit,” **International Council for Science**, 2016. <http://www.icsu.org/news-centre/press-releases/press-releases-2016/scientists-disappointed-with-new-urban-agenda-agreed-on-by-nations-at-habitat-iii-summit-1>

“Nova Agenda Urbana ajuda cidades a enfrentar desafios da rápida urbanização,” **ONU BR**, 2016. <https://nacoesunidas.org/nova-agenda-urbana-ajuda-cidades-a-enfrentar-desafios-da-rapida-urbanizacao/>

“Habitat 111 summit: Scientists disappointed over outcome,” **EcoGreen News**, 2016.
<http://www.ecogreennews.com/habitat-111-summit-scientists-disappointed-over-outcome/>

“Habitat III: Dürftiger Fahrplan für Städte,” **Klimaretter**, 2016.
<http://www.klimaretter.info/ueber-uns/21958-zeit-uns-zu-unterstuetzen>

“Improving the science of cities: How urban ecology can go from being a plot-based research activity to a global cross-comparative research programme,” **Stockholm Resilience Centre**, 2015. <http://www.stockholmresilience.org/research/research-news/2016-08-30-improving-the-science-of-cities.html>

“Building a ‘Good’ Anthropocene From the Bottom Up,” **New York Times**, 2016.
https://dotearth.blogs.nytimes.com/2016/10/06/building-a-good-anthropocene-from-the-bottom-up/?_r=1

“Doom in the Age of the Anthropocene? Timon McPhearson Envisions a Brighter Future,” **The New School**, 2016. <http://blogs.newschool.edu/news/2016/10/doom-in-the-age-of-the-anthropocene-urban-ecology-prof-timon-mcphearson-envisions-a-brighter-future-2/#.WMgazBiZNE5>

“Highlighting the bright spots: Global examples of a thriving sustainable social-ecological future published,” **Stockholm Resilience Centre**, 2016.
<http://www.stockholmresilience.org/research/research-news/2016-10-05-highlighting-the-bright-spots.html>

Global sustainability projects offer hope for the future,” **Science Daily**, 2016.
www.sciencedaily.com/releases/2016/10/161011125646.htm

“Scientists must have a say in the future of cities,” **Center for BOLD Cities**, 2016. <http://www.centre-for-bold-cities.nl/news/scientists-must-have-a-say-in-the-future-of-cities>

“Community-generated data crucial for implementing New Urban Agenda,” **Urban Africa**, 2016. <https://www.urbanafrica.net/news/community-generated-data-crucial-for-implementing-new-urban-agenda/>

“Our future doesn’t have to be dismal,” **EarthSky**, 2016. <http://earthsky.org/earth/our-future-doesnt-have-to-be-dismal>

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ADVISORY BOARD MEMBER

- NYC Mayor's Office of Recovery and Resiliency, Urban Heat Island Task Force
- Future Earth, Urban Knowledge Action Network (UKAN), Core Development Team
- Quantified Planet, Scientific Advisor
- 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
- Natural Areas Conservancy, New York, NY
- 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

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- Environment and Planning B: Planning and Design
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- 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

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