

Peter J. Marcotullio  
*Curriculum Vitae*

Hunter College  
Department of Geography  
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**I. HIGHER EDUCATION**

**A. Degrees**

<u>Institution</u>	<u>Dates</u> <u>Attended</u>	<u>Degree and Major</u>	<u>Date</u> <u>Conferred</u>
Columbia University	1989-1996	Ph.D. Urban Planning	September 1996
Columbia University	1986-1989	MA Geography	May 1989
University of Pennsylvania	1980-1983	MA Ecology	May 1983
University of Pennsylvania	1975-1979	BA Psychology	May 1979

**II. EXPERIENCE**

**A. Teaching**

<u>Institution</u>	<u>Dates</u>	<u>Rank</u>	<u>Department</u>
Hunter College, CUNY	2024-present	Chair	Dept. of Geography and Environmental Science
Hunter College, CUNY	2014-present	Full Professor	Dept. of Geography
Hunter College, CUNY	2009-2014	Associate Professor (Tenured 2010)	Dept. of Geography
Hunter College, CUNY	2007-2009	Distinguished Lecturer	Urban Planning, Macaulay Honors College, Dept. of Geography
Columbia University	2014-present	Adjunct Professor	Urban Planning, School for Professional Studies
Columbia University	2007-2014	Adjunct Assoc. Prof	Urban Planning
Columbia University	2005-2006	Visiting Associate Prof.	Urban Planning
University of Tokyo	2001-2006	Professor	Urban Planning
University of Tokyo	1999-2001	Lecturer	Urban Planning

**B. Other (non-teaching)**

<u>Institution</u>	<u>Dates</u>	<u>Title</u>
CUNY Advanced Science Research Center	2016-present	Affiliate Faculty
CUNY Institute for Sustainable Cities	2015-present	Director
CUNY Graduate Center, EES Program	2012-present	Affiliate Doctoral Faculty

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CUNY Institute for Sustainable Cities	2009-2014	Deputy Director
United Nations University	2006-2012	Adjunct Senior Fellow
United Nations University	2001-2006	Fellow
United Nations University	1999-2001	Associate Fellow
United Nations University	1997-1999	Research Associate
National Action Council for Minorities in Engineering	1994-1996	Research consultant
NYC Board of Education	1993-1995	Research consultant
Mega-Cities, Inc.	1989-1990	Consultant
Regional Plan Association	1987-1988	Research Assistant

### **III PUBLICATIONS**

#### **A. Edited Books**

- 2023 Peter J. Marcotullio, Joshua Sperling and Andrea Pierce (Eds.) *Urban Energy and Climate: Prospects for a Sustainable Transition*, Singapore: World Scientific Publishing Company.
- 2013 Thomas Elmqvist, Michail Fragkias, Julie Goodness, Burak Güneralp, Peter J. Marcotullio, Robert I. McDonald, Sue Parnell, Marte Sendstad, Maria Schewenius, Karen C. Seto and Cathy Wilkinson, (Eds.) *Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities, A Global Assessment*, Frankfurt, Springer.
- 2010 Ronan Paddison, Peter J. Marcotullio and Mike Douglass, (Eds.) *Connected Cities: Hinterlands, Hierarchies, Networks and Beyond*, Urban Studies Economy, Volume 3, Thousand Oaks, Sage publications.
- 2007 Peter J. Marcotullio and Gordon McGranahan, (Eds.) *Scaling Urban Environmental Challenges: From Local to Global and Back*, London: Earthscan, James & James, Pub.
- 2004 Andre Sorenson, Peter J. Marcotullio and Jill Grant, (Eds.) *Towards Sustainable Cities: East Asian, North American, and European Perspectives on Managing Urban Regions* Aldershot: Ashgate Publishing Limited.
- 2001 Fu-Chen Lo and Peter J. Marcotullio, (Eds.) *Globalization and the Sustainability of Cities in the Asia Pacific Region*, Tokyo: UNU Press.

#### **B. Book Chapters**

- 2024 Meier, S., **Marcotullio, P. J.**, Carney, P., DesRoches, S., Freedman, J., Golan, M., Gundlach, J., Parisian, J., Sheehan, P., Slade, W. V., Teron, L., & Wei, K. Chapter 6: Energy. In A. Stevens (Ed.),

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New York State Climate Impacts Assessment [Interim version for public release]  
<https://nysclimateimpacts.org/wp-content/uploads/2024/01/Assessment-ch6-energy-01-31-24.pdf>.

- 2023 Andrea Pierce, Joshua Sperling and **Peter J. Marcotullio** “Introduction”, in Peter J. Marcotullio, Joshua Sperling and Andrea Pierce (Eds.) *Urban Energy and Climate: Prospects for a Sustainable Transition*, Singapore: World Scientific Publishing Company, pp 1-10.
- 2023 Andrea Pierce, **Peter J. Marcotullio** and Joshua Sperling “Past Trends and Future Prospects for a Sustainable Urban Energy Transition”, in Peter J. Marcotullio, Joshua Sperling and Andrea Pierce (Eds.) *Urban Energy and Climate: Prospects for a Sustainable Transition*, Singapore: World Scientific Publishing Company, pp. 13-34.
- 2023 Nicholas Rio, Allan Lu and **Peter J. Marcotullio**, “Geography of Residential Energy Use in the New York City Metropolitan Region, 1993–2009” in Peter J. Marcotullio, Joshua Sperling and Andrea Pierce (Eds.) *Urban Energy and Climate: Prospects for a Sustainable Transition*, Singapore: World Scientific Publishing Company, pp. 143-174.
- 2023 Peter Marcotullio, Shelby Smith, Patrick Lamson-Hall and Solly Angel, “On-Road Energy Efficiency and CO<sub>2</sub> Reduction Strategies in a Small Island State: Grenada”, in Peter J. Marcotullio, Joshua Sperling and Andrea Pierce (Eds.) *Urban Energy and Climate: Prospects for a Sustainable Transition*, Singapore: World Scientific Publishing Company, pp. 225-264.
- 2023 Peter Marcotullio, Joshua Sperling and Andrea Pierce, “Conclusions”, in Peter J. Marcotullio, Joshua Sperling and Andrea Pierce (Eds.) *Urban Energy and Climate: Prospects for a Sustainable Transition*, Singapore: World Scientific Publishing Company, pp. 317-332.
- 2023 Peter J. Marcotullio, “Environmental, Energy, and Climate Justice in the US: Origins, Drivers, Principles, and Potential Remedies,” in Geeta Mehta and Dikshu Kukreja (eds) *Livable Cities for the Future*, New Delhi, Observer Research Foundation, pp 38-44.
- 2022 Christopher A. Williams, Simone Alin, David Butman, Scott Doney, Adrien Finzi, Chris Gough, Daniel Hayes, Sarah Hobbie, Trevor Keenan, Randy Kolka, Kate Lajtha, **Peter J. Marcotullio**, Stephanie Pincetl, Andrew D. Richardson, “Process and Attribution Studies to Uncover Mechanistic Responses to Drivers,” in *NACP Science Implementation Plan*, NCAP: Carbon Cycle & Ecosystem Office, Washington, DC.
- 2021 Peter J. Marcotullio and Michael Schmeltz, “Future heat risk in South Asia and the need for ecosystem mitigation,” in Mahua Mukerjee and Rajib Shaw (Eds.), *Ecosystem-Based Disaster and Climate Risk Resilience, Integration of Blue-Green Infrastructure in Sustainable Development*, Springer, pp 225-252.

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- 2020 Peter J. Marcotullio, Carsten Keßler and Balázs M. Fekete, “Future megacity-regions and heatwave exposure” in Danielle Labbé and André Sorensen (Ed.) *Handbook of Megacities and Megacity-Regions*, Edward Elgar Publishing, Inc, pp. 309-326.
- 2018 Peter J. Marcotullio, L. Bruhwiler, S. Davis, J. Engel-Cox, J. Field, C. Gately, K. R. Gurney, D. M. Kammen, E. McGlynn, J. McMahon, W. R. Morrow, III, I. B. Ocko, and R. Torrie. Chapter 3: Energy Systems,” in *Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report* Edited by Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu, pp. U.S. Global Change Research Program, Washington, DC, USA, pp 110-188 pp., <https://doi.org/10.7930/SOCCR2.2018.Ch3>.
- 2018 Kevin R. Gurney, P. Romero-Lankao, S. Pincetl, M. Betsill, M. Chester, F. Creutzig, K. Davis, R. Duren, G. Franco, S. Hughes, L. R. Hutyrá, C. Kennedy, R. Krueger, **P. J. Marcotullio**, D. Pataki, D. Sailor, and K. V. R. Schäfer “Chapter 4: Understanding Urban Carbon Fluxes” in *Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report*, Edited by Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu, pp. U.S. Global Change Research Program, Washington, DC, USA, pp. 189-228, <https://doi.org/10.7930/SOCCR2.2018.Ch4>.
- 2018 D.N. Huntzinger, A. Chatterjee, D. J. P. Moore, S. Ohrel, T. O. West, B. Poulter, A. P. Walker, J. Dunne, S. R. Cooley, A. M. Michalak, M. Tzortziou, L. Bruhwiler, A. Rosenblatt, Y. Luo, **P. J. Marcotullio**, and J. Russell. “Chapter 19: Future of the North American Carbon Cycle” in *Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report* Edited by Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu, pp. U.S. Global Change Research Program, Washington, DC, USA, pp.760-809, <https://doi.org/10.7930/SOCCR2.2018.Ch19>.
- 2018 Peter J. Marcotullio, Andrea Sarzynski, Joshua Sperling, Abel Chavez, Hossein Estiri, Marianne Najafi, Minal Pathak and Rae Zimmerman “The Urban Energy Supply Sector: Challenges and Opportunities for Low-Carbon, Resilient and Just Cities” in Cynthia Rosensweig, William Solecki, Shagun Mehrotra, Shobhakar Dhakal, Patricia Romero-Lankao *Climate Change and Cities, 2<sup>nd</sup> Assessment Report of the Urban Climate Change Research Network*, pp. 443-490, Cambridge, Cambridge University Press.
- 2018 Peter J. Marcotullio, “The Asian urban energy system: An overview of trends and challenges,” in Sara Hsu (Ed), *Handbook of Sustainable Development in Asia*, Routledge, pp 191-122.
- 2018 Peter J. Marcotullio “Transition theories” in Deljana Iossifova, Christopher Doll and Alexandros Gasparatos (Eds.) *Defining the Urban: Interdisciplinary and Professional Perspectives*, New York and London: Routledge, pp 236-248.

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- 2017 Peter J. Marcotullio “Urban environmental transitions in Southeast Asia,” in Philip Hirsch (Ed.) *Handbook of Environment in Southeast Asia*, London, Routledge, pp. 239-263.
- 2017 Peter J. Marcotullio, "New urban environmental conditions in the South and South-to-North cooperation and transfer," in UNDP & TWAS (Eds.) *Sharing Innovative Experiences, Volume 20: Successful Examples of Scientific Practices in Urban Sustainable Development*, New York: United Nations Development Programme and Third World Academy of Science, Office for South to South Cooperation, pp. 17-26 (<http://165.65.7.68/GSSDAcademy/SIE/Docs/vol20/new/0-Invited.pdf>)
- 2016 Peter J. Marcotullio, Andrea Sarzynski, Jochen Albrecht, Niels Schulz and Jake Garcia “Assessing Urban GHG Emissions in European Medium and Large Cities: Methodological Issues,” in Pierre Laconte and Christopher Gossop (Eds.), *Sustainable Cities: Assessing the Progress and Practice of Urban Environments*, London, IA Tauris, pp. 83-101
- 2015 Peter J. Marcotullio “Urbanization, energy use and GHG emissions” in Karen C. Seto, William D. Solecki and Corrie Griffiths (Eds.) *Handbook on Urbanization and Global Environmental Change*, London, Routledge, pp. 106-124.
- 2014 Peter J. Marcotullio "Globalization, economic flows and land-use transitions," in Karen C. Seto and Anette Reenberg. (Eds.) *Rethinking Global Land Use in an Urban Era*, Cambridge, MA: MIT Press, pp.89-117.
- 2014 Hallie Eakin, Ruth DeFries, Suzi Kerr, Eric F. Lambin, Jianguo Liu, Peter J. Marcotullio, Peter Messerli, Anette Reenberg, Ximena Rueda, Simon R. Swaffield, Birka Wicke, and Karl Zimmerer "Significance of telecoupling for exploration of land-use change," in Karen C. Seto and Anette Reenberg. (Eds.) *Rethinking Global Land Use in an Urban Era*, Cambridge, MA: MIT Press, pp.141-161.
- 2014 Peter J. Marcotullio, Richard Cooper and Louis Lebel, "Climate and urbanization," in Michael J. Manton and Linda Anne Stevenson (Eds.) *Climate and Asia and the Pacific, Security, Society and Sustainability*, Dordrecht, Springer Science+Business Media, pp. 59-128.
- 2013 Robert I. McDonald, Peter J. Marcotullio, and Burak Güneralp, “Urbanization and global trends in biodiversity and ecosystem services” in Thomas Elmqvist, Michail Fragkias, Julie Goodness, Burak Güneralp, Peter J. Marcotullio, Robert I. McDonald, Sue Parnell, Marte Sendstad, Maria Schewenius, Karen C. Seto and Cathy Wilkinson, (Eds.) *Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities, A Global Assessment*, Frankfurt, Springer, pp. 31-52.
- 2013 Burak Güneralp, Robert I. McDonald, Michail Fragkias, Julie Goodness, Peter J. Marcotullio, and Karen C. Seto, “Urbanization forecasts, effects on land use, biodiversity, and ecosystem services,” in Thomas Elmqvist, Michail Fragkias, Julie Goodness, Burak Güneralp, Peter J. Marcotullio, Robert I. McDonald, Sue Parnell, Marte Sendstad, Maria Schewenius, Karen C. Seto and Cathy Wilkinson,

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- (Eds.) *Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities, A Global Assessment*, Frankfurt, Springer, pp. 439-454.
- 2013 William Solecki and Peter J. Marcotullio, "Climate change and urban biodiversity vulnerability," in Thomas Elmqvist, Michail Fragkias, Julie Goodness, Burak Güneralp, Peter J. Marcotullio, Robert I. McDonald, Sue Parnell, Marte Sendstad, Maria Schewenius, Karen C. Seto and Cathy Wilkinson, (Eds.) *Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities, A Global Assessment*, Frankfurt, Springer, pp. 487-506.
- 2013 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, Marina Alberti, Carl Folke, Niki Frantzeskaki, Dagmar Haase, Madhusudan Katti, Harini Nagendra, Jari Niemelä, Steward T.A. Pickett, Charles L. Redman, and Keith Tidball, "Stewardship of the Biosphere in the Urban Era," in Thomas Elmqvist, Michail Fragkias, Julie Goodness, Burak Güneralp, Peter J. Marcotullio, Robert I. McDonald, Sue Parnell, Marte Sendstad, Maria Schewenius, Karen C. Seto and Cathy Wilkinson, (Eds.) *Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities, A Global Assessment*, Frankfurt, Springer, pp. 719-746.
- 2013 Peter J. Marcotullio and William Solecki, "Sustainability and Cities: Meeting the Grand Challenge for the 21<sup>st</sup> Century," in Linda Sygna, Karen O'Brien, and Johanna Wolf (Eds.) *A Changing Environment for Human Security: New Agendas for Research, Policy and Action*, London, Earthscan Pub, pp. 375-391.
- 2013 Peter J. Marcotullio and William D. Solecki, "What is a city? An essential definition for sustainability." in Christopher G. Boone, Michail Fragkias (Eds.) *Urbanization and Sustainability - Linking Urban Ecology, Environmental Justice and Global Environmental Change*, Berlin, Springer, pp 11-25.
- 2012 Peter J. Marcotullio "New York City" in *Berkshire Encyclopedia of Sustainability Volume 8, The Americas and Oceania: Assessing Sustainability* Great Barrington, MA; Berkshire Publishing Group, LLC, pp. 195-199.
- 2012 Peter J. Marcotullio, Alex de Sherbinin and Sandra Baptista, "Urbanization, poverty and ecosystem degradation," in Fabrice DeClerck, Jane Carter Ingram, and Cristina Rumbaitis del Rio (Eds.), *Integrating Ecology into Poverty Alleviation and International Development Efforts: A Practical Guide*, Springer Verlag, pp. 101-124.
- 2011 Peter J. Marcotullio "Urban soils" in Ian Douglas, David Goode, Mike Houck, Rusong Wang (Eds.), *Handbook of Urban Ecology*, London, Routledge Press, pp. 164-186.
- 2011 Robert McDonald and Peter J. Marcotullio, "Global effects of urbanization on ecosystem services" in Jari Niemelä (Ed.) *The [Oxford] Handbook of Urban Ecology*, Oxford, Oxford University Press, pp. 193-205.

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- 2011 Peter J. Marcotullio, "Globalization and urban environmental conditions in the Asia Pacific region," United Nations (Ed) *Population Distribution, Urbanization, Internal Migration and Development: An International Perspective*, New York: United Nations publication ESA/P/WP/223, pp. 205-242.
- 2010 Peter J. Marcotullio and Mike Douglass "Connected cities – Histories, hinterlands, hierarchies and networks," in Ronan Paddison, Peter J. Marcotullio and Mike Douglass *Volume III: Connected Cities – Hinterlands, Hierarchies, Networks and Beyond*, London, Sage Publications, Ltd, pp. vii-xvii.
- 2008 Peter J. Marcotullio and Niels B. Schulz, "Urbanization, increasing wealth and energy transitions: Comparing experiences between the USA, Japan and rapidly developing Asia Pacific economies," in Peter Droege (ed.) *Urban Energy Transition*, Elsevier Limited, pp. 55-89.
- 2008 Peter J. Marcotullio, Ademola K. Braimoh and Takashi Onishi, "The impact of urbanization on soils" in A. K. Braimoh and P. L. G. Vlek (Eds.), *Land Use and Soil Resources*, Springer Publishers, pp. 201-250.
- 2007 Peter J. Marcotullio, "Variations of urban environmental transitions: The experiences of rapidly developing Asia Pacific cities," in Peter J. Marcotullio and Gordon McGranahan, (Eds.), *Scaling the Urban Environmental Transition: From Local to Global and Back*, London: Earthscan, James & James, Pub., pp. 45-68.
- 2007 Peter J. Marcotullio and Gordon McGranahan, "Scaling urban environmental challenges," in Peter J. Marcotullio and Gordon McGranahan, (Eds.), *Scaling the Urban Environmental Transition: From Local to Global and Back*, London: Earthscan, James & James, Pub., pp. 1-17.
- 2006 Sang Choel Choe, Peter J Marcotullio and Awais L. Piracha, "Approaches to cultural indicators," in M. Nadarajah and Ann Tomoko Yamamoto, (Eds.), *Urban Crisis, Culture and the Sustainability of Cities*, Tokyo: UNU Press, pp. 193-213.
- 2006 Peter J. Marcotullio, "Comparison of urban environmental transitions in North America and Pacific Asia," in Hidenori Tamagawa, (Ed.), *Sustainable Cities, Japanese Perspectives on Physical and Social Structures*, Tokyo, UNU Press, pp. 7-49.
- 2005 Gordon McGranahan, Peter J. Marcotullio, Xuemei Bai, Deborah Balk, Tania Braga, Ian Douglas, Thomas Elmqvist, William Rees, David Satterthwaite, Jacob Songsore, Hania Zlotnik. "Urban Systems," Chapter 27 in: Millennium Ecosystem Assessment, *Current State and Trends: Findings of the Condition and Trends Working Group. Ecosystems and Human Well-being, Volume 1*, Washington DC: Island Press, pp. 795-825.
- 2005 Peter J. Marcotullio, "Shifting drivers of urban environmental change in the Asia Pacific region," in HuanFeng, Lizhong Yu and William Solecki, (Eds.), *Urban Dimensions of Environmental Change: Science,*

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- Exposures, Policies and Technologies*, Monmouth, NJ: Science Press and Science Press USA Inc, pp. 168-182.
- 2005 Peter J. Marcotullio, "Shifting drivers of change, time-space telescoping and urban environmental transitions in the Asia Pacific," in Marco Keiner, Martina Koll-Schretzenmayr and Willy A. Schmid, (Eds.), *Managing Urban Futures, Sustainability and Urban Growth in Developing Countries*, Aldershot: Ashgate Publishing Limited, pp. 103-124.
- 2005 J.A. "Hans" van Ginkel and Peter J. Marcotullio, "Asian urbanization and local and global sustainability," in Marco Keiner, Martina Koll-Schretzenmayr and Willy A. Schmid, (Eds.), *Managing Urban Futures, Sustainability and Urban Growth in Developing Countries*, Aldershot: Ashgate Publishing Limited, pp. 11-35.
- 2004 Peter J. Marcotullio, "Why Asian urbanization experiences should make us think differently about planning approaches," in Andre Sorenson, Peter J. Marcotullio and Jill Grant, (Eds.), *Towards Sustainable Cities, East Asian, North American and European Perspectives on Managing Urban Regions*, Aldershot: Ashgate Publishing Limited, pp. 38-58.
- 2004 Andre Sorenson, Peter J. Marcotullio and Jill Grant, "Toward sustainable cities," in Andre Sorenson, Peter J. Marcotullio and Jill Grant, (Eds.), *Towards Sustainable Cities, East Asian, North American and European Perspectives on Managing Urban Regions*, Aldershot: Ashgate Publishing Limited, pp. 3-23.
- 2004 Jill Grant, Peter J. Marcotullio and Andre Sorenson, "Towards land management policies for more sustainable cities," in Andre Sorenson, Peter J. Marcotullio and Jill Grant (Eds.), *Towards Sustainable Cities, East Asian, North American and European Perspectives on Managing Urban Regions*, Aldershot: Ashgate Publishing Limited, pp. 301-308.
- 2002 Peter J. Marcotullio, "Urban sustainability and the regional city system in the Asia Pacific," in Saskia Sassen, (Ed.), 1.18. Human Resource System Challenge VII: Human Settlement Development, in *Encyclopedia of Life Support Systems (EOLSS)*, Oxford, UK: UNESCO, EOLSS Publishers, [<http://www.eolss.net>].
- 2001 Fu-Chen Lo and Peter J. Marcotullio, "Globalization, world city formation, the functional city system and urban sustainability in the Asia Pacific," in Asfaw Kumssa and Terry G. McGee, (Eds.), *New Regional Development Paradigms, Volume 1: Globalization and the New Regional Development*. Westport CT: Greenwood Publishing Group, pp. 91-128.
- 2001 Peter J. Marcotullio and Fu-Chen Lo, "Introduction," in Fu-Chen Lo and Peter J. Marcotullio, (Eds.), *Globalization and the Sustainability of Cities in the Asia Pacific Region*, Tokyo, UNU Press, pp. 1-21.



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- 2001 Fu-Chen Lo and Peter J. Marcotullio, “Globalization and urban transformations in the Asia Pacific region,” in Fu-Chen Lo and Peter J. Marcotullio, (Eds), *Globalization and the Sustainability of Cities in the Asia Pacific Region*, Tokyo: UNU Press, pp. 21-67.
- 2001 Tetsuo Kidokoro, Takashi Onishi and Peter J. Marcotullio, “The impact of globalization and issues of metropolitan planning in Tokyo,” in Fu-Chen Lo and Peter J. Marcotullio, (Eds.), *Globalization and the Sustainability of Cities in the Asia Pacific Region*, Tokyo: UNU Press, pp. 115-139.
- 2001 Peter J. Marcotullio, “Globalization and the sustainability of cities in the Asia Pacific region,” in Fu-Chen Lo and Peter J. Marcotullio, (Eds.), *Globalization and the Sustainability of Cities in the Asia Pacific Region*, Tokyo: UNU Press, pp. 455-490.
- 2000 Peter J. Marcotullio and Yuko Nishida, “Converging global functions/diverging local responses: A comparison of solid waste management policies in New York City and Tokyo,” in Ooi Giok Ling, (Ed.), *Model Cities: Urban Best Practices* (Volume 1), Singapore: Urban Redevelopment Authority and Institute of Policy Studies, pp. 246-257.
- 1998 Peter J. Marcotullio, “The study of metropolitan governance in global context: The sustainability of cities in the Asia Pacific region,” in Josefa S. Edralin, (Ed.), *Metropolitan Governance and Planning in Transition: Asia-Pacific Cases*, Nagoya: United Nations Centre for Regional Development (UNCRD) Research Report Series No. 31, pp. 435-448.

### **C. Guest Editor - Special Journal Editions**

- 2023 Peter J. Marcotullio and Andre Sorensen (eds.) “Future Urban Worlds: Theories, models, scenarios, and observations of urban spatial expansion”, *Frontiers in Built Environment – Built Environment | Urban Science*, 9, <https://doi.org/10.3389/fbuil.2023.1194813>
- 2021 Peter J. Marcotullio and William D. Solecki (eds.) “COVID-19 as an Extreme Event in the New York Metropolitan Region,” *Journal of Extreme Events*, 8(2): 2102001
- 2012 Frans Berkhout, **Peter J. Marcotullio** and Tatsuya Hanaoka (eds.) “Socio-technological transition towards sustainable energy and climate stabilization,” *Sustainability Science* 7(2).

### **D. Peer-Reviewed Journal Articles**

- 2025 Emily Torem, Jenna Tipaldo, Katherine McComas, Tom Matte and Peter J. Marcotullio “Considerations for Communication of Climate Health Risk related to Flooding and other Hazards in Cities” *Journal of City Climate Policy and Economy*, (forthcoming).
- 2024 Sandra Meier, **Peter J. Marcotullio**, Peter Carney, Susanne DesRoches, Jeff Freedman, Maureen Golan, Justin Gundlach, Jordi Parisian, Peter Sheehan, William V. Slade, Lemir Teron, Ke Wei and

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- Amanda Stevens, “New York State Climate Impacts Assessment Chapter 6: Energy”, *Annals of the New York Academy of Sciences*. 1-44, <https://doi.org/10.1111/nyas.15191>
- 2024 Chris Lim, Carlos Restrepo, **Peter Marcotullio**, Victoria Sanders, and New York City Environmental Justice Alliance, “Community Heat and Air Mapping Project for Environmental Justice: Heat-Related Risks, Air Pollution, and Social Vulnerability in New York City,” *Environmental Law in New York*, 35(11): 153-158.
- 2024 Gowri Anand and **Peter J. Marcotullio** “Spatial disparities in flood vulnerability in New York City,” *Journal of Hospital Management and Health Policy*, 8:4 <https://dx.doi.org/10.21037/jhmhp-23-92>
- 2024 Liv Yoon, Jennifer Ventrella, **Peter J. Marcotullio**, Tom Matte, Kathryn. Lane, Jenna Tipaldo, Sonal Jessel, Kathleen Schmid, Julia Casagrande, Hayley Elszasz, “Climate Change, Energy, and Energy Insecurity in New York City”, *Annals of the New York Academy of Sciences* 1-36. <https://doi.org/10.1111/nyas.15117>
- 2024 Joel Towers, Robin Leichenko, Christian Braneon, Deborah Balk, Liv Yoon, Gernot Wagner, Jennifer Ventrella, John Kuo Wei Tchen, Bernice Rosenzweig, Philip Orton, Luis Ortiz, Richard Moss, Franco Montalto, Timon McPhearson, Katherine McComas, **Peter Marcotullio**, Thomas Matte, Nicole Maher, Kim Knowlton, Radley Horton, Sheila Foster, Daniel Bader, Ana Baptista, NPCC4: Climate risk and equity—advancing knowledge toward a sustainable future | Conclusions, *Annals of the New York Academy of Sciences*, <https://doi.org/10.1111/nyas.15150>
- 2024 Deborah Balk, Timon McPhearson, Elizabeth Cook, Nicole Maher, **Peter Marcotullio**, Thomas Matte, Richard Moss, Luis Ortiz, Joel Towers, Jennifer Ventrella, Gernot Wagner Concepts and tools for envisioning New York City’s Futures, *Annals of the New York Academy of Sciences*, <http://doi.org/10.1111/nyas.15121>
- 2024 Thomas Matte, Kathryn Lane, Jenna F. Tipaldo, Janice Barnes, Kim Knowlton, Emily Torem, Gowri Anand, Liv Yoon, **Peter Marcotullio**, Deborah Balk, Juanita Constible, Hayley Elszasz, Kazuhiko Ito, Sonal Jessel, Vijay Limaye, Robbie Parks, Mallory Rutigliano, Cecilia Sorenson, Ariel Yuan, Climate Change and New York City’s Health Risk, *Annals of the New York Academy of Sciences*, <https://doi.org/10.1111/nyas.15115>
- 2024 Christian Braneon, Luis Ortiz, Daniel Bader, Naresh Devineni, Philip Orton, Bernice Rosenzweig, Timon McPhearson, Lauren Smalls-Mantey, Vivien Gornitz, Talea Mayo, Sanketa Kadam, Hadia Sheerazi, Equisha Glenn, Liv Yoon, Amel Derras-Chouk, Joel Towers, Robin Leichenko, Deborah Balk, **Peter Marcotullio**, Radley Horton “NPCC4: New York City climate risk information 2022—observations and projections,” *Annals of the New York Academy of Sciences*, <http://doi.org/10.1111/nyas.15116>

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College: Hunter College

- 2023 Peter J. Marcotullio, Olta Brace, Kathryn Lane, Carolyn E. Olson, Jenna Tipaldo, Jennifer Ventrella, Liv Yoon, Kim Knowlton, Gowri Anand, and Tom Matte, "Local power outages, heat and community characteristics in New York City", *Sustainable Cities and Society*, 99: 104932, <https://doi.org/10.1016/j.scs.2023.104932>
- 2023 Peter Marcotullio, Xiangzheng Deng, Zhihui Li, Alexandros Gasparatos, Jelena Aleksejeva, Shu-li Huang, Po Ju Huang, Shobhakar Dhakal, Subina Shrestha, Kwangik Wang, Gowri Anand, Jessica Stretton, "Tracking influences of Asian urban greenhouse gas emissions for sustainability policies: Preliminary report", *APN Science Bulletin*, 13(1): 15-39, DOI 10.30852/sb.2023.2106, <https://www.apn-gcr.org/bulletin/issue/issue-13-1/page/2/>
- 2022 Peter J. Marcotullio, Carsten Keßler and Balázs M. Fekete, "Global urban exposure projections to extreme heatwaves," *Frontiers in Built Environment - Built Environment | Urban Science* 8, <https://doi.org/10.3389/fbuil.2022.947496>
- 2022 Deborah Balk, Daniela Tagtachian, Leiwen Jiang, **Peter J. Marcotullio**, Elizabeth Cook, Bryan Jones, Ahmed Mustafa and Timon McPhearson, "Frameworks to envision equitable urban futures in a changing climate: a multi-level, multidisciplinary case study of New York City," *Frontiers in Built Environment – Urban Science*, 8:949433. <https://doi.org/10.3389/fbuil.2022.949433>.
- 2021 Peter J. Marcotullio and Michael Schmeltz, "COVID-19 in three Global Cities: Comparing Impacts and Outcomes", *Journal of Extreme Events*, 7: 62150013.
- 2021 Nora Kyrkjebo, Adam Parris, Janice Barnes, Illya Azaroff, Deborah Balk, Ana Isabel Baptista, Christian Braneon, William Calabrese, Treston Codrington, Jessica Colon, Farzana Gandhi, Maureen George, Peter Groffman, Justin Gundlach, Rachel Hogan Carr, Nancy Holt, Radley Horton, Arthee Jahangir, Bobuchi Ken-Opurum, Kim Knowlton, Robin Leichenko, Nicole Maher, **Peter J. Marcotullio**, Thomas Matte, Katherine A. McComas, S. Kyle McKay, Timon McPhearson, Richard Moss, Guy Nordenson, Thaddeus Pawlowski, Nicholas Rajkovich, Kevin A. Reed, Laurie Schoeman, John Shapiro, Danielle Spiegel-Feld, John Tchen, Joel Towers, Gernot Wagner, Rapid Research and Assessment on COVID-19 and Climate in New York City, *Journal of Extreme Events*, 8: 2150010.
- 2021 Peter J. Marcotullio, Carsten Keßler, Rebeca Quintero Gonzalez and Michael Schmeltz, "Urban growth and heat in tropical climates", *Frontiers in Ecology and Evolution*, 9(616626): DOI: 10.3389/fevo.2021.616626.
- 2021 Peter J. Marcotullio, Carsten Keßler and Balázs Fekete, "The future urban heat-wave challenge in Africa: Exploratory analysis" *Global Environmental Change* 66: 102190, <https://doi.org/10.1016/j.gloenvcha.2020.102190>.

**Name:** Peter J. Marcotullio

**College:** Hunter College

- 2021 Charles Axelsson, Stefano Soriani, Patricia Culligan and **Peter Marcotullio**, “Urban policy adaptation toward managing increasing pluvial flooding events under climate change,” *Journal of Environmental Planning and Management*, 64(8): 1408-1427
- 2019 William Solecki, Rae Zimmerman, Bruns, A, Jose Lobo, Chris Boone, **Peter Marcotulio**, Nancy Grimm, Andrea Young, Corrie Griffith, Breitzer, R, Patricia Romero-Lankao, Andres Luque-Ayala, “Extreme Events and Climate Adaptation-Mitigation Linkages: Understanding Low-Carbon Transitions in the Era of Global Urbanization" *WIREs Climate Change*, 10(6): DOI: 10.1002/wcc.616.
- 2019 Michael Schmeltz and **Peter J. Marcotullio** “Examination of Human Health Impacts Due to Adverse Climate Events Through the Use of Vulnerability Mapping: A Scoping Review,” *International Journal of Environmental Research and Public Health*, 16(17): pii: E3091. DOI: 10.3390/ijerph16173091.
- 2019 Po-Ju Huang, Shu-Li Huang, and **Peter J. Marcotullio** "Relationships between CO2 emissions and embodied energy in building construction: A historical analysis of Taipei," *Building and Environment*, 155: 360-375.
- 2018 Charles J.Vörösmarty, Vanesa Rodríguez Osuna, Anthony D.Cak, Anik Bhaduri, Stuart E. Bunn, Fabio Corsi, Jorge Gastelumend, Pamela Green, Ian Harrison, Richard Lawford, **Peter J. Marcotullio**, Michael McClain, Robert McDonald, Peter McIntyre, Margaret Palmer, Richard D.Robarts, András Szöllösi-Nagy, ZacharyTessler, and Stefan Uhlenbrook, “Ecosystem-based water security and the Sustainable Development Goals (SDGs)” *Ecohydrology & Hydrobiology*, 18(4): 317-333.
- 2017 Yuki Sempei, Yuji Hara and **Peter J. Marcotullio** "Characteristics of Agricultural Conservation Easement in watershed protection program of New York City." *Journal of the Japanese Institute of Landscape Architecture*, 80(5): 701-706.
- 2016 Michael T. Schmeltz, **Peter J. Marcotullio**, David U. Himmelstein, Stephanie Woolhandler, Grace Sembajwe “Outcomes of hospitalizations for common illnesses associated with a comorbid heat-related illness,” *Climatic Change*, 38(3): 567-584
- 2015 William D. Solecki, Karen C. Seto, Deborah Balk, Anthony Bigio, Christopher G. Boone, Felix Creutzig, Michail Fragkias, Patricia Romero-Lankao, Shuaib Lwasa, **Peter Marcotullio**, Timm Zwickel, “A Framework for an Urbanization-Climate Change Typology,” *Urban Climate* 14(Part 1): 116-137.
- 2015 K.R. Gurney, P. Romero-Lankao, K.C. Seto, L.R. Hutyra, R. Duren, C. Kennedy, N.B. Grimm, J.R. Ehleringer, **P. Marcotullio**, S. Hughes, S. Pincetl, M.V. Chester, D.M. Runfola, J.J. Feddema, J. Sperling, “Climate Change: Track urban emissions on human scales” *Nature* 525(7568): 179–181.

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- 2015 Chris Kennedy, Iain Stewart, Angelo Facchini, Renata Mele, Bin Chen, Igor Cersosimo, Mariko Uda, Arun Kansal, Anthony Chiu, Kwi-gon Kim, Carolina Dubeux, Emilio Lebre La Rovere, Bruno Cunha, Stephanie Pincetl, James Keirstead, Sabine Barles, Semerdanta Pusaka, Juniarti Gunawan, Michael Adegbile, Mehrdad Nazariha, Shamsul Hoque, **Peter Marcotullio**, Florencia Gonzalezo, Tarek Genena, Nadine Ibrahim, Rizwan Farooqui, Gemma Cervantes, Ahmet Duran Sahin, "Energy and Material Flows of Megacities," *Proceedings of the National Academy of Sciences of the United States* 112(19): 5985-5990.
- 2015 Michael T. Schmeltz, Grace Sembajwe, **Peter J. Marcotullio**, Jean Grassman, David U. Himmelstein, and Stephanie Woolhandler "Identifying individual risk factors and documenting the pattern of heat-related illness through hospitalization and spatial patterns of household cooling," *PLoS ONE*, 10(3): e0118958. DOI: 10.1371/journal.pone.0118958.
- 2015 Robert McDonald, Burak Guneralp, Wayne Zipperer and **Peter J. Marcotullio** "Global urbanization and biodiversity: fundamental challenges and solutions" *Solutions* 5(6): 60-69.
- 2015 Susan Parnell, José G. Siri, Thomas Elmqvist, **Peter Marcotullio**, Tony Capon, Aromar Revi, Mark Pelling, Jo Ivey Boufford, "Making the Sustainable Development Goals Operational through an Urban Agenda: Perspectives from Science" *Solutions* 5(2): 37-40.
- 2014 Peter J. Marcotullio, Sarah Hughes, Andrea Sarzynski, Stephanie Pincetl, Landy Sanchez Pena, Patricia Romero-Lankao, Daniel Runfola and Karen C. Seto "Urbanization and the carbon cycle: Contributions from social science" *Earth's Future*, 2(10): 496-514.
- 2014 Patricia Romero-Lankao, Kevin Gurney, Karen Seto, Mikhail Chester, Riley M. Duren, Sara Hughes, Lucy R. Hutya, **Peter Marcotullio**, Larry Baker, Nancy B. Grimm, Chris Kennedy, Elisabeth Larson, Stephanie Pincetl, Dan Runfola, Landy Sanchez, Gyami Shrestha, Andrea Sarzynski, Joshua Sperling, Eleanor Stokes, "Towards a more integrated understanding of urbanization, urban areas and the carbon cycle" *Earth's Future*, 2(10): 515-532.
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- 2013 Peter J. Marcotullio, Andrea Sarzynski, Jochen Albrecht, Niels Schulz and Jake Garcia, "The geography of global urban greenhouse gas emissions: An exploratory analysis," *Climatic Change* 121(4): 621-634.
- 2013 William D. Solecki, Karen C. Seto and **Peter J. Marcotullio**, "It's time for an urbanization science," *Environment*, 55(1):12-16.

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- 2012 Tatiana Maria Cecy Gadda and **Peter John Marcotullio**, “Changes in marine seafood consumption in Tokyo, Japan,” *Desenvolvimento e Meio Ambiente* 26: 11-33.
- 2012 Peter J. Marcotullio, Andrea Sarzynski, Jochen Albrecht and Niels Schulz, “The geography of urban greenhouse gas emissions in Asia: A regional approach,” *Global Environmental Change*, 22(4): 944-958.
- 2012 Karen C. Seto, Anette Reenberg, Christopher G. Boone, Michail Fragkias, Dagmar Haase, Tobias Langanke, **Peter Marcotullio**, Darla K. Munroe, Branislav Olah, David Simon “Urban Land Teleconnections and Sustainability,” *Proceedings of the National Academy of Sciences of the United States of America* 109(20): 7687–7692.
- 2011 Peter J. Marcotullio, Jochen Albrecht and Andrea Sarzynski, “A geography of urban greenhouse gas emissions in India: A preliminary assessment,” *Journal of Resources, Energy and Development*, 8(1): 11-35.
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- 2009 Bernadia I. Tjandradewi, and Peter J. Marcotullio, “City-to-city networks: Asian perspectives on key elements and areas for success,” *Habitat International, a Journal of the Study of Human Settlements*, 33(2): 165-172.
- 2007 Peter J. Marcotullio and Julian D. Marshall, “Potential futures for road-transportation CO<sub>2</sub> emissions in the Asia-Pacific,” *Asia Pacific Viewpoint*, 48(3): 355-377.
- 2007 Peter J. Marcotullio and Niels B. Schulz, “Comparison of energy transitions between the USA and developing and industrializing economies,” *World Development*, 35(10): 1650-1683.
- 2007 Peter J. Marcotullio and Eric Williams, “Exploring effects of an ‘infrastructure bottleneck’ on road transportation CO<sub>2</sub> emissions in Asia Pacific countries,” *International Journal of Environment and Pollution*, 30(1): 27-44.
- 2007 Peter J. Marcotullio, “Urban water-related environmental transitions in Southeast Asia,” *Sustainability Science*, 2(1): 27-54.
- 2006 Peter J. Marcotullio, “Ecosystem approaches and urban environmental planning,” *International Society of City and Regional Planners (ISoCaRP) Review 2006*, Special Issue *Cities between Integration and Disintegration: Opportunities and Challenges*, pp. 28-47.
- 2006 Bernadia I. Tjandradewi, Peter J. Marcotullio and Tetsuo Kidokoro, “Evaluating city-to-city cooperation: A case study of Penang and Yokohama C2C experiences,” *Habitat International, a Journal of the Study of Human Settlements*, 30(3): 357-376.

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- 2006 Peter J. Marcotullio, "Faster growth of road transportation CO<sub>2</sub> emissions in Asia Pacific economies: Exploring differences in trends between the rapidly developing and developed world," *Bulletin of Science and Technology for Society*, 26(2): 121-134.
- 2005 Peter J. Marcotullio, Eric Williams and Julian D. Marshall, "Faster, sooner, and more simultaneously: How recent road and aviation transportation CO<sub>2</sub> emission trends in developing countries differ from historic trends in the United States of America," *Journal of Environment and Development*, 14(1): 125-148.
- 2004 Peter J. Marcotullio, "Comment on Japanese city planning from a foreigner's perspective," *City Planning Review, Journal of the City Planning Institute of Japan*, 53(2): 15-16 (In Japanese).
- 2003 Peter J. Marcotullio and Yok-shiu F. Lee, "Urban environmental transitions and urban transportation systems: A comparison of the North American and Asian experiences," *International Development Planning Review*, 25(4): 325-354.
- 2003 Peter J. Marcotullio, Sarah Rothenberg and Miri Nakahara, "Globalization and urban environmental transitions: Comparison of New York's and Tokyo's experiences," *Annals of Regional Science*, 37(3): 369-390.
- 2003 Peter J. Marcotullio, "Globalization, urban form and environmental conditions in Asia Pacific cities," *Urban Studies*, 40(2): 219-248.
- 2002 Pooya Alaedini and Peter J. Marcotullio, "Urban implications of information technology/new electronics for developing countries," *Journal of Urban Technology*, 9(3): 89-108.
- 2002 Peter J. Marcotullio, "Arrested growth and urban sustainability in the Asia Pacific," *Asia Pacific Viewpoint*, 43(2): 241-255.
- 2002 Peter J. Marcotullio, "Why are urban environmental problems different in Third World cities: A comparison of Western and Asia Pacific experiences," *Comprehensive Urban Studies*, 77(3): 55-97 (in Japanese).
- 2002 A. H. Zakri, Peter Marcotullio, Awais Piracha, Caroline King and W. Bradnee Chambers, "Urban ecosystems and the Millennium Ecosystem Assessment," *International Review for Environmental Strategies*, 2(2): 249-262.
- 2001 Peter J. Marcotullio, "Asian urban sustainability in the era of globalization," *Habitat International, a Journal of the Study of Human Settlements*, 25(4): 577-498.
- 2000 Fu-Chen Lo and Peter J. Marcotullio, "Globalization and urban transformations in the Asia Pacific

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region: A review,” *Urban Studies*, 37(1): 77-111.

- 2000 Peter J. Marcotullio, “Watershed management and environmental impact assessment law in New York,” *City Planning Journal*, 30: 38-47 (in Japanese).
- 1999 Peter J. Marcotullio, “Globalization and urban development in the Asia Pacific,” *Chiiki Kaihatsu*, 422: 52-66 (in Japanese).
- 1998 Peter J. Marcotullio, “The Regional Plan Association and the development of New York,” *Chiiki Kaihatsu*, 408: 2-11 (in Japanese).
- 1985 Peter J. Marcotullio and Frank Gill, “Use of time and space by the Chestnut-backed Antbird,” *The Condor*, 87:187-191.

#### **E. Book Reviews**

- 2015 Peter J. Marcotullio *Cities and Climate Change* (Routledge Critical Introductions to Urbanism and the City) by Harriet Bulkeley for *Progress in Human Geography*, 39(2): 239-242.
- 2007 Peter J. Marcotullio, *Beyond Metropolis, The Planning and Governance of Asia’s Mega-Urban Regions*, by Aprodicio A. Laquian, *International Development Planning Review* 29(1): 111-117.
- 2004 Peter J. Marcotullio, *The Return of Malthus: Environmentalism and Post-war Population-Resource Crises*, by Björn-Ola Linnér, *Natural Resources Forum* 28: 339-341.

#### **F. Additional Scholarly Activities and Non-peer Reviewed Publications**

- 2024 Chris C. Lim, Carlos E. Restrepo, Peter J. Marcotullio, Victoria Sanders, Shravanthi Kanekal, Celeste Perez, Eunice Ko “Heat-Related Risks, Air Pollution, and Social Vulnerability in New York City,” The New York City Environmental Justice Alliance (NYC-EJA), [https://nyc-eja.org/wp-content/uploads/2024/06/NYC\\_CHAMPEJ\\_Report.pdf](https://nyc-eja.org/wp-content/uploads/2024/06/NYC_CHAMPEJ_Report.pdf)
- 2020 Yossie Hollander, Jim Barrett, Dale Bryk, Marius Griskonis, John Hofmeister, Jeff Holmstead, David Hunter, Rebecca Lorenzen, Peter Marcotullio, Jim McDonnell and Dave Nagel, “American Energy Independence and the Transportation Sector, *A White Paper with Outcomes from an OurEnergyPolicy Roundtable Discussion*,” *Our Energy Policy*, (October 7), pp 13.
- 2019 Peter J. Marcotullio and Shelby Smith “Scenarios report on the change of national transportation emissions from the urban densification of St, George’s Town, Grenada, for the Marron Institute of Urban Management, a provostial institute of New York University, pp. 19.



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**College:** Hunter College

- 2019 Peter J. Marcotullio and Jessica Stretton, "Identifying policies for low carbon cities in the developing world: The potential for investing to reduce emissions to achieve a 1.5°C world," submitted to UN-Habitat as consultancy services for market & sectoral research to support drafting "The GCF-wide Sectoral Guidelines & Plan for the Urban Sector (Cities & Climate Change)," Work Scope 1, Section 1.1, pp. 104.
- 2019 Peter J. Marcotullio "U.S. national energy policy: Does it infringe on life, liberty and property?" Roosevelt House Public Policy Institute at Hunter College, *Faculty Journal*, <http://www.roosevelthouse.hunter.cuny.edu/?forum-post=us-national-energy-policy-infringe-life-liberty-property>
- 2018 Cynthia Rosenzweig and William Solecki "Impact 2050, The Future of Cities under Climate Change," UCCCRN Technical Report, Technical Direction, Peter J. Marcotullio, Diana Reckien and Alex Guane.
- 2015 Peter J. Marcotullio "Climate injustice and cities" *UGEC Viewpoints* <https://ugec.org/2015/05/11/climate-injustice-and-cities/>.
- 2015 Peter J. Marcotullio "Climate injustice: Demographic destiny: Cities ever bigger, can lead the way" Roosevelt House Issue Briefs, (published for a conference entitled, *Climate Injustice, Are There Solutions?* 5-6 March, Hunter College Roosevelt House, New York City).
- 2011 Peter J. Marcotullio, contributor to Jill Jager and Sarah Cornell (Eds.) *The Planet in 2050, The Lund Discourse of the Future*, London, Routledge Studies in Ecological Economics. (Participated in the Lund Discourse and contributed pieces to this edited volume).
- 2010 Danny Ovrυν and Peter J. Marcotullio (Eds.) *Feeding NYC: A Historical Geography of Food provisioning from 1500 to the Present*, New York: Lulu Publications. (This vanity press publication has Hunter Macaulay students as authors of individual chapters. Danny Ovrυν is also a Hunter Macaulay student).
- 2010 Peter J. Marcotullio and William Solecki "What is a city? Old debate, new implications" *Urbanization and Global Environmental Change Newsletter*, October (4): 7-11.
- 2009 Peter J. Marcotullio (Ed.) *What's the Beef? The Environmental and Social Impacts of Meat Consumption in New York City*, New York: Lulu Publications. (This vanity press publication has Hunter Macaulay students as authors of individual chapters).
- 2008 Peter J. Marcotullio, Exploring the Ecosystem Approach to Urban Environmental Management, *UNU-IAS Working Paper No. 159*, Yokohama: United Nations University-Institute of Advanced Studies.

**Name:** Peter J. Marcotullio

**College:** Hunter College

- 2007 Peter J. Marcotullio, "Application of the Human Ecosystems Model (HEM) to Urban Environmental Management in ASEAN," Final report for APN project ARCP200602CMY-Marcotullio, Kobe, Japan, pp. 106.
- 2007 Tatiana Gadda and Peter J. Marcotullio, "The Influences on Tokyo's Post-War Marine Seafood Consumption Patterns," *UNU-IAS Working Paper No. 145*, Yokohama: United Nations University-Institute of Advanced Studies.
- 2005 Peter J. Marcotullio, "Time-space telescoping and urban environmental transitions in the Asia Pacific," *UNU-IAS Report*, Yokohama: UNU-IAS.
- 2003 Peter J. Marcotullio and Grant Boyle, (Eds.), "Defining an ecosystem approach to urban management and policy development," *UNU-IAS Report*, Tokyo: UNU-IAS.
- 2003 Awais L. Piracha and Peter J. Marcotullio, (2003). Urban ecosystem analysis: Identifying tools and methods, *UNU-IAS Report*, Tokyo: United Nations University-Institute of Advanced Studies.
- 2002 Ashbindu Singh, Bedrick Modlan, Thomas Loveland with contributions by Ivar A. Baste, Gordana Beltram, William Richard Burch Jr., Timothy W. Foresman, Susan Greenwood Etienne, Gary Machlis, Peter J. Marcotullio, Jerry Melillo, Dorsamy Pillay, Veronique Plocq Fichelet, and David Rapport, "Making science for sustainable development more policy relevant: New tools for analysis," *ICSU Series on Science for Sustainable Development*, No. 8, Paris: SCOPE/ISCU.
- 2000 Peter J. Marcotullio, "New York's water supply system: responses to current challenges," (in Japanese), Tokyo: Nippon Suidou Shinbun Co.
- 1999 Fu-chen Lo and Peter J. Marcotullio, "Mega-cities, world cities and the urban future," *Swiss Press Review and News Report*, (5): 2-5.
- 1997 Peter J. Marcotullio, "Patterns in the production of minority engineers, 1995-96," *National Action Council on Minorities in Engineering (NACME) Research Letter*, 7(1), New York: NACME, Inc.
- 1995 Catherine Morrison, Ken Griffin and Peter J. Marcotullio, "Retention of minority students in engineering: Institutional variability and success," *National Action Council for Minorities in Engineering (NACME) Research Letter*, 5(2), New York: NACME, Inc.
- 1990 Peter J. Marcotullio, "Greening the apple: An open space plan for the City of New York," New York: Regional Plan Association.

#### **IV PROFESSIONAL ACTIVITIES**

**Name:** Peter J. Marcotullio

**College:** Hunter College

**A. Grant Activities**

- 2024-2025 *Hunter College, PSC-CUNY Grant*, Quantifying Neighborhood Change in NYC, ~ \$3,500, PI: Peter J. Marcotullio
- 2023-2026 *Henry Luce Foundation, Luce Initiative on Southeast Asia*, Building a CUNY/SUNY Southeast Asia Consortium (SEAC) ~ \$500,000. PI: Meredith Weiss, Albany, (one of several co-PIs across SUNY and CUNY schools): PJ. Marcotullio
- 2022-2023 *NASA ROSES 49.A*, Spatial and temporal variations in land surface temperature, vegetation and socioeconomic and health characteristics in frontline EEJ neighborhoods in New York City: Integrating Scientific Study with Community Perspectives, ~\$100,000, PI: Peter J. Marcotullio, Co-Is: Andrew Reinmann, Mehdi Heris
- 2022-2024 *NASA ROSES 49.A*, Developing an interactive portal for connecting vulnerable communities to the science of urban heat mitigation, ~\$250,000, PI: Mehdi Heris, Co-Is: Peter J. Marcotullio, Andrew Reinmann
- 2022-2023 *Hunter College, PSC-CUNY Grant*, Neighborhood Change and Climate-related Risk Exposure in New York City: Heat and flooding in redlined districts, ~ \$3,500, PI: Peter J. Marcotullio
- 2021-2022 *Hunter College, PSC-CUNY Grant*, Generating two decades of high-resolution residential energy use and GHG emissions grids for New York State, ~ \$3,500, PI: Peter J. Marcotullio
- 2021-2022 *CUNY, Interdisciplinary Research Grant*, Developing Socioeconomic Scenario Narratives Consistent with Alternative Climate Futures for New York City, ~ \$40,000, PI: Bryan Jones, Co-PI: Peter J. Marcotullio, Deborah Balk
- 2020-2021 *CUNY, Climate Crisis Grant*, Measuring and evaluating the impact of climate change induced urban heat at the micro-scale in New York City, CUNY ~\$40,000, Co-PI: Peter J. Marcotullio
- 2020-2021 *CUNY, Climate Crisis Grant*, NYC Congestion Pricing: A convergence approach to studying the impacts of climate change policy. CUNY ~\$10,000, PI: Andrew Reinmann, Co-PI: Peter J. Marcotullio
- 2018-2019 *ASRC Seed Grant*, Estimating the potential role of trees in reducing heat vulnerability in New York City metropolitan area ~ \$30,000, PI: Peter J. Marcotullio, Co-PI Andrew Reinmann
- 2018-2019 *Hunter College, PSC-CUNY Grant*, Generating historical and spatial inventories of Northeast, USA urban on-road transportation energy use and GHG emissions at high resolution for determinants of change analysis ~ \$3,500, PI: Peter J. Marcotullio

**Name:** Peter J. Marcotullio

**College:** Hunter College

- 2017-2020 *Asia Pacific Network for Global Change Research (APN) CRRP – Collaborative Regional Research Programme*, Tracking Influences of Asian Urban GHG emissions for Sustainability Policies: Identifying Low Carbon Pathways to meet the Paris Agreement, Kobe Japan, ~ \$95,500, PI: Peter J. Marcotullio
- 2017-2018 *Hunter College, PSC-CUNY Grant*, Developing models for generating historical inventories of residential energy use and GHG emissions at high resolution for the Northeast, USA, New York City, USA ~ \$3,500, PI: Peter J. Marcotullio
- 2016-2017 *Hunter College, PSC-CUNY Grant*, Supporting an understanding of influences on urban greenhouse gas emission trends: Identifying availability of historical data for metropolitan New York City, USA, ~\$3,500, PI: Peter J. Marcotullio
- 2013-2014 *Hunter College, George N. Shuster Faculty Fellowship Presidential Grant*, Preliminary global spatial estimates of urbanization-biodiversity conflict areas to 2100, ~\$2,000, PI: Peter J. Marcotullio.
- 2013-2014 *Hunter College, Faculty Research Seminar*, Transitions in global systems: Implications for sustainability (cont'd), ~\$4,000, PIs: Peter J. Marcotullio, Randy Rutberg and William D. Solecki.
- 2012-2013 *Hunter College, Faculty Research Seminar*, Transitions in global systems: Implications for sustainability, ~\$4,000, PIs: Peter J. Marcotullio, Randy Rutberg and William D. Solecki.
- 2012-2013 *Hunter College, President's Fund for Faculty Advancement*, Survey of healthy foods in New York City Communities: ~\$1,400, PI: Peter J. Marcotullio.
- 2009-2011 *US National Center for Ecological Analysis and Synthesis (NCEAS) and The Nature Conservancy*, Ecosystem services on an urbanizing planet: What 2 billion new urbanites means for air and water: \$50,000. PIs: Robert McDonald and Peter J. Marcotullio.
- 2005-2007 *Asia-Pacific Network for Global Environmental Change Research (APN)* Applying the Human Ecosystem Model (HEM) to urban environmental management challenges in ASEAN: \$65,000. PIs: Peter J. Marcotullio and A. H. Zakri.
- 2007 *ASEAN Secretariat* Applying the Human Ecosystem Model (HEM) to urban environmental management challenges in ASEAN: \$20,000. PI: Peter J. Marcotullio.

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- 2004            *United States Environmental Protection Agency* Faster, sooner and more simultaneously: How recent transportation CO<sub>2</sub> emission trends in rapidly developing countries differ from historic trends in the US: \$24,000. PI: Peter J. Marcotullio.
- 2003-2005      *Japan Foundation, Center for Global Partnership* US-Japan urban-ecosystems initiative: Generating scientific information for governance: \$93,000. PIs: Peter J. Marcotullio and Takashi Onishi.
- 1987-1993      *Columbia University, Presidential Fellowship* Annual Tuition and stipend, Columbia University.

## **B. Selected projects**

*New York City Panel on Climate Change 5<sup>th</sup> Assessment*, Author (2024-2026).

*3<sup>rd</sup> Decadal Carbon Cycle Science Plan*, Author (2024-2026)

*New York State Climate Assessment*, Co-Chair, Energy Working Group (2021 – 2023)

*New York City Panel on Climate Change 4<sup>th</sup> Assessment*, Futures Working Group & Health Working Group, 4<sup>th</sup> New York City Climate Assessment (2020-2023).

*Coordinating Lead Author and Lead Author*, Second North American State of the Carbon Cycle Report (SOCCR2), The Carbon Cycle Interagency Working Group (CCIWG) via the US Carbon Cycle Science Program, “Energy System”, “Urban Settlements”, “Future projections” chapters (2016-2018).

*Coordinating Lead Author (CLA)* 2nd Global Assessment Report of the Urban Climate Change Research Network (ARC3-2), Chapter 12, "Urban energy supply," (2015-2018).

*Scientific Steering Committee (SSC)* International Human Dimensions Programme (IHDP) Urbanization and Global Environmental Change (UGEC) (see <http://www.ugec.org/tiki-index.php>) (2014 – 2017).

*Contributing Author (CA)*, Intergovernmental Panel on Climate Change (IPCC), Chapter 12, "Human settlements, infrastructure and spatial planning," Volume III. *Pathways for Mitigating Climate Change* (2012-2014).

*Coordinating Lead Author (CLA)*, Cities and Biodiversity Outlook 1 (CBO-1), A Global Assessment of the Links Between Urbanization, Biodiversity and Ecosystem Services, “Conditions and Trends” Section 2, as part of the Convention for Biodiversity’s (CBD) *Global Biodiversity Outlook 2012*, (2011 – 2013).

*Coordinating Lead Author (CLA)*, Climate in Asia & the Pacific: Security, Society and Sustainability,

**Name:** Peter J. Marcotullio

**College:** Hunter College

“Urbanization and climate in Asia and the Pacific,” Chapter 3, as part of the Asia Pacific Network for Global Change (APN) project entitled, *APN and Climate Change: Perspectives from Asia and the Pacific*, (2011 – 2013).

*Advisor & Research collaborator*, Mori Memorial Foundation research project, *Global Power City Index*, Tokyo, Japan (GPCI) (2010 – 2012).

*Editorial team member*, UN-Habitat *State of Asian Cities Report 2010*, (2009-2010).

*Board member*, International Council on Ecopolis Development (Intecopolis), a non-governmental, not-for-profit organization designed as a global alliance committed to a “common societal enterprise” of ecopolis development, Beijing, China (2009-2012).

*Scientific Advisory Committee (SAC) Member* Committee on Problems of the Environment (SCOPE) global assessment on the state of knowledge of *Adaptive Ecopolis Development to Meet the Challenge of Environmental Change* (see [www.icsu-scope.org/](http://www.icsu-scope.org/)) (2004-2008).

*Project Associate* International Human Dimensions Programme (IHDP) Urbanization and Global Environmental Change (UGEC) (see <http://www.ugec.org/tiki-index.php>) (2007 to 2014).

*Coordinating Lead Author (CLA)* *Millennium Ecosystem Assessment* “Urban systems” chapter, Working Group 1, *Current State and Trends: Ecosystems and Human Well-being*, Millennium Ecosystem Assessment, (see <http://www.maweb.org/en/index.aspx>) (2001-2005).

### **C. Selected invitations, presentations and workshop participation (since 2014)**

2024 *Assessing and Reducing Climate Risks in Complex and Cascading Systems in Urban and Rural Areas – Cross-National Learning*, Roosevelt House, Hunter College, 7 August

2024 *NPCC final meeting*, Gracie Mansion, 26 April,

2024 *Buffalo State Global Studies Institute*, Environmental Crisis, Politics and Sustainability of Southeast Asia, Buffalo State University, 18-21 March

2024 *UCCRN Health and Energy NPCC Briefing*, Energy Insecurity in NYC, 6 March

2023 *NYU Workshop for International Local Decision Makers*, NYC Energy Futures: Challenges and Opportunities, NYU, 25 October

2023 *NASA NISAR Mission Workshop on Environmental Justice*, Changes in socio-economic and bio-physical characteristics of HOLC areas in NYC, Advanced Science Research Center, CUNY, 24-25

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- 2022 *CUNY Climate Crisis Conference*, Climate change, heat and NYC: Are we ready for the future?, Hunter College, 15 September
- 2022 *Congestion Pricing: Implication for Environment and Society*, A virtual symposium featuring interdisciplinary insights and dialogue, 5 May.
- 2022 *CUNY Think Tank*, A two-day symposium on the impact of climate crisis on the ecosystem and human health, Advanced Science Research Center, CUNY 28-29 April
- 2019 *World Bank East Asia and Pacific BBL*, World Bank, Washington DC, USA, 9 October.
- 2019 *SOCCR2 Webinar*, joint collaboration between the U.S. Carbon Cycle Science Program Office and NOAA's OneNOAA Science Seminar Series. Now available at <https://youtu.be/CqIG8jG55RM>, 4 June.
- 2019 *Energy and Society in Transition, 2<sup>nd</sup> International Conference on Energy Research and Social Science*, Arizona State University, Tempe, USA, 28-31 May.
- 2019 *Scenarios Forum 2019*, Frederic S. Pardee Center for International Futures, Denver, CO, USA, 11-14 March
- 2019 *2019 AAAS Annual Meeting*, panel on “Transcending Boundaries: New Insights from the Second State of the Carbon Cycle”, Washington, DC, USA, 14-17 February
- 2019 *Smart Cities Grenada Mission*, National Inventory for Energy and GHG Emissions, St. George’s, Grenada, 3-6 February
- 2018 *American Geophysical Union Annual Meeting 2018*, panel on “State of the Carbon Cycle in North America: Key Findings from Assessing a Decade of Science, Decisions, and Management Impacts.”, Washington, DC, USA, 10-14 December
- 2018 *Asia Pacific Network Project*, “Tracking Influences of Asian Urban GHG Emissions for Sustainability Policies: Identifying Low Carbon Pathways to Meet the Paris Agreement” Research Meeting, Beijing, China, 15-16 November.
- 2018 *Global flows of migrants and their impacts on North European welfare states, FLOW Start Conference*, Aalborg University, Copenhagen, Denmark, 27-28 August.
- 2018 *Energy Efficiency: From Systems to Individuals*, sponsored by the IBREA Foundation, UN Church Center, New York, USA, 10 August.

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- 2018 *International Forum of Urbanization and Global Environmental Change in Asia: Knowledge Gaps and Research Needs*, Ministry of Science and Technology (MOST), Taipei, Taiwan, 11-12 June.
- 2018 *SOCCR-2 Chapter Leads' Workshop*, USDA NIFA Waterfront Center, Washington, DC, USA, 3-5 April.
- 2018 *Discussion on Climate Change and Sustainable Development Goals*, "Climate change and urban heat: Exploring pattern and factor of future global vulnerability, Sponsored by the Unitarian Universalist United Nations Office, UN Church Center, United Nations, NY, USA, 9 April.
- 2018 *Lunchtime Seminar*, "Climate change and urban heat: Exploring pattern and factor of future global vulnerability, moderated by Joel Cohen, sponsored by the Committee on Global Thought, Columbia University, New York, USA, 29 March.
- 2017 *American Geophysical Union Annual Meeting 2017*, Poster session organized by the Carbon Cycle Interagency Working Group (CCIWG) under the auspices of the U.S. Global Change Research Program (USGCRP), The Second State of the Carbon Cycle Report (SOCCR-2): "Chapter 3, Energy Systems," non-attendance submission for presentation, New Orleans, Louisiana, USA, 11-15 December.
- 2017 *Asia Pacific Network Project*, "Tracking Influences of Asian Urban GHG Emissions for Sustainability Policies: Identifying Low Carbon Pathways to Meet the Paris Agreement" Scoping Meeting, National Taipei University, Taipei, Taiwan, 26-27 October.
- 2017 *New York Institute of Technology 12<sup>th</sup> Annual Energy & Ecology Conference*, NYIT (de Seversky Mansion, Old Westbury, New York, 14 June.
- 2017 *Promoting Resilience and Transformation in Cities: A Conference for a Public Policy of Urban Climate Governance*, Roosevelt House, Hunter College, 16-18 May.
- 2017 *Collaborating for Change: A New Vision of Climate Adaptation*, Jerome Greene Hall, Columbia University, 4 May.
- 2017 *Understanding Urban Habitats Panel*, Graduate Center, CUNY, New York, 13 March.
- 2017 *Livable Urban Futures: UNMASK / Alternative Urban Futures Meeting II*, Sponsored by the Urbanization and Global Environmental Change Project, Hunter College, Roosevelt House, New York, 12-13 January.
- 2016 *American Geophysical Union Annual Meeting 2016*, panel organized by the Carbon Cycle Interagency Working Group (CCIWG) under the auspices of the U.S. Global Change Research Program (USGCRP), The Second State of the Carbon Cycle Report (SOCCR-2): Assessing the Last Decades' Science of the Carbon Cycle across North America and Adjacent Oceans II, and panel on Urban



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Areas and Global Change II, San Francisco, California, 12-16 December.

- 2016 *Columbia University Graduate School of Architecture Planning and Preservation*, Energy and the City, sponsored by the Urban Planning Program, Fayerweather Hall, Columbia University, New York, 9 December.
- 2016 *Columbia University Graduate School of Architecture Planning and Preservation*, Sharing Sustainable & Smart City in the Perspective of China's Urbanization, Wood Auditorium, Avery Hall, Columbia University 15 October.
- 2016 *The 33<sup>rd</sup> International Geographical Congress, Shaping Our Harmonious Worlds*, organized by the International Geographical Union (IGU), the Geographical Society of China and the Chinese Academy of Science, Institute of Geographic Sciences and Natural Resources Research, CAS, Beijing, China, 21-25 August.
- 2016 *Transforming Infrastructure in NYC for Sustainability: Critical Needs and Opportunities Workshop*, sponsored by Électricité de France, EDF, UN Sustainable Development Solutions Network, Urban Climate Change Research Network - Columbia University and Institute for Sustainable Cities – CUNY, Roosevelt House, Hunter College, New York, USA, 25 April.
- 2016 *The Limitations of Urban Sustainability Discourse: An Interdisciplinary Panel Discussion*, organized by the CUNY Earth and Environmental Science Programme, CUNY Graduate Center, New York, USA, 24 March.
- 2015 *Workshop on Tools and Indicators for Assessing Urban Resilience*, Organized by the Global Carbon Project-Tsukuba International Office in collaboration with NIES, APN, UGEC WUDAPT and IR3S, University of Tokyo, Tokyo, Japan, 7-10 December.
- 2015 *Future Perfect: Cities at the Forefront of Change and Development*, organized by the Center for Local and Regional Governance and the University of the Philippines National College of Public Administration and Governance (UP NCPAG), Manila, Philippines, 7-9 October.
- 2015 *Transformation Resilience on the Urban Coast (TRUC) New York City workshop*, sponsored by the CUNY Institute for Sustainable Cities, Hunter College and the United Nations University, Institute for Environment and Human Security, The Brooklyn College Graduate Center for Worker Education, New York, New York, 27 May.
- 2015 *Livable Cities Symposium: Mapping UW Assets*, The Pyle Center, University of Wisconsin, Madison, 11-12 May.
- 2015 *Climate Injustice: Are There Solutions?* Hunter College, Roosevelt House, New York, New York, 5-6

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- 2015 *5th North American Carbon Project Principal Investigators Meeting*, Washington DC, USA, 26-29 January.
- 2015 *Urban adaptation to Climate Change*, Sponsored by the Taiwanese Ministry of Interior, Taipei, Taiwan 16 January.
- 2014 *2nd Annual UGEC Conference, Urban Transitions & Transformations, Science, Synthesis and Policy*, sponsored by IHDP, UGEC and the National Taipei University, Taipei, Taiwan, 6-8 November
- 2014 *2nd World Social Science Fellows seminar on Sustainable Urbanization: Transformations to Sustainability in Urban Contexts*, sponsored by the World Social Science Fellows Program of the International Social Science Council, Academia Sincia and National Taipei University, Taipei, Taiwan, 2-8 November.
- 2014 *Local Climate Change Adaptation*, sponsored by the Taiwanese Science Council, National Taipei University, Taipei, Taiwan, 11-12 September.
- 2014 *IHDP-UGEC Project Workshop on Transitions to a Low Carbon Urban Future in an Era of Extreme Events*, sponsored by IHDP-UGEC and CISC, Hunter College, New York City, 12-13 June.
- 2014 *Earth and Atmospheric Sciences Seminar*, sponsored by the Department of Earth and Atmospheric Science, City College of New York, New York City, 13 March.
- 2014 *IHDP-UGEC Project Scoping Meeting for Future Earth*, sponsored by IHDP-UGEC, Royal Holloway University, London, UK, 21-22 February.
- 2014 *UN Open Working Group (OWG) 7: Sustainable Development Goals, Roundtable on Understanding Integrated Urban Challenges*, sponsored by ISCU and the UNU, United Nations, New York, USA (6 January)

#### **D. Conference and Workshop Organizing Activities (since 2008)**

- Climate Injustice: Are There Solutions?* Hunter College, Roosevelt House Public Policy Institute, New York, (5-6 March 2015).
- Global Urban Spatial Projections: What Can be Done Now?* Hunter College, Roosevelt House Public Policy Institute, New York, (20 September 2013).
- In the Wake of the Half Moon, Environmental Transformation in the New York Metropolitan Region, 1609-2109*, Hunter College, New York (16 November 2009).

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*Ecosystem services on an urbanizing planet: What 2 billion new urbanites means for air and water*, Workshops, National Center for Ecological Analysis and Synthesis, Santa Barbara, California (17-21 August & 10-12 February 2010).

## **E. Editorial/Review Work**

### *Journal Editorial Board*

#### Advisory Board

- *One Earth*, Cell Press, Elsevier.

#### Co-Editor-in-Chief

- *Urban Climate*, Elsevier.

#### Editorial board member

- *Sustainability*, an international, cross-disciplinary, scholarly, peer-reviewed and open access journal of environmental, cultural, economic, and social sustainability of human beings.
- *Frontiers Built Environment, Urban Science*, including urban change and evolution, urban form, urban ecology, urban health, spatial inequalities, social networks, urban infrastructure, virtual mobility, shared economies, innovation, urban analytics, modeling, and visualizations, indicators and dashboards, urban sensors, and big data.

### *Review Work*

Invited Peer reviewer - United Nations University Press, Asia-Pacific Network for Global Environmental Change Research (APN), World Scientific Publishing, Columbia University Press, Cambridge University Press, Yale University Press.

Proposals reviewer - Hong Kong Research Grants Council, Asia Pacific Network for Global Change Research (APN).

Ad-hoc peer reviewer –*Ambio, Applied Geography, Asia Pacific Viewpoint, Cities, Climate and Development, Climatic Change, Computers Environment and Urban Studies, Conservation and Society, Current Opinion in Environmental Sustainability, Ecological Modeling, Earth's Future, Energy Policy, Environmental Science and Technology, Frontiers, Global Environmental Change, Geography Compass, Habitat International, International Development Planning Review, International Journal of Environment and Pollution, International Review for Environmental Strategies, Journal of Environment and Development, Journal of Extreme Events, Landscape Ecology, Landscape and Urban Planning, Natural Resources Forum, Pacific Affairs, Regional Studies, Sustainability Science (IR3S), Urban Climate, Urban Ecosystems, Urban Studies.*

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## **F. Students Advised**

### *Ph.D. Students*

- 2023 Atul Kumar, (Outside Reader, Ph.D. dissertation), *Green Infrastructure Characterization to Improve Air Quality and Thermal Environment*. Institute of Technology Roorkee, Department of Architecture and Planning, India
- 2019 Dararat Khamchiangta (Reader, Ph.D. dissertation), *Characteristics of Urban Heat Island, Local Climate Zone Classification and Strategies for Bangkok*, Asian Institute of Technology, School of Environment, Resources and Development, Bangkok, Thailand
- 2015 Michael Schmeltz (Reader, Ph.D. dissertation), *Risk factors and costs influencing hospitalizations due to heat-related illnesses*, CUNY School of Public Health at Hunter College, Graduate Center, CUNY.
- 2012 Michael Porter (Reader, Ph.D. dissertation), *The Environmental Justice Implications of New York State's and New York City's Brownfield Policies*, Graduate Center, CUNY.
- 2007 Jingnan Huang (Reader, Ph.D. dissertation), *Analyzing and modeling urban development and its impact in the mountain area: A case study of Chongqing City, China*, National University Singapore, Singapore.
- 2007 Bernadia Irawati Tjandradewi, (Advisor, Ph.D. dissertation), *City-to-City partnerships in the Asian region*, University of Tokyo, Japan.
- 2006 Tatiana Maria Cecy Gadda (Reader, Ph.D. dissertation), *Changes in the marine seafood footprint of Tokyo, Japan, with increasing income*, Chiba University, Japan.
- 2006 Kwang-Ik Wang (Advisor, Ph.D. dissertation), *Study on the Relationship between the Urban Form Elements and the Road Transport CO2 emissions for Korean Cities*, University of Tokyo, Japan.
- 2006 Nguyen Tung Lam, (Reader, Ph.D. dissertation), *A study on restructuring of housing finance systems and its impacts on housing accessibility of lower-middle income groups in Hanoi, Vietnam*, University of Tokyo, Japan.
- 2004 Clemens Alexander Pichura (Reader, Ph.D. dissertation), *The phenomenon of innovation and its influence on changing project delivery models in construction in Japan*, University of Tokyo, Japan.
- 2004 He Dan (Reader, Ph.D. dissertation), *Formation of pro-growth urban regime and its implication to downtown redevelopment in Shanghai, China*, University of Tokyo, Japan.
- 2004 Sumedi Andono Mulyo (Reader, Ph.D. dissertation), *A study of the decentralization policy and its implications on districts and cities in Indonesia*, University of Tokyo, Japan.

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- 2003 Gulsanara Parvin (Advisor, Ph.D. dissertation), *Sustainability of the benefits induced by micro-credit programs: A study of the poor women in the Southwestern region of Bangladesh*, University of Tokyo, Japan.
- 2003 Lee Sen Wong (Reader, Ph.D. dissertation), *A study of the local government services through the E-government initiatives – case study into the application of information communication technologies by the urban community in Kuching, Sarawak, Malaysia*, University of Tokyo, Japan.
- 2002 Agim Reci (Reader, Ph.D. dissertation), *Housing and residential mobility: validation of upward social mobility for low-income households in the Indian Context*, University of Tokyo, Japan.
- 2001 Hatda An Pich (Advisor, Ph.D. dissertation), *Contemporary study on rural employment creation and income generation in the face of urban changes: A case study of periphery areas of Phnom Penh Municipality, Cambodia*, University of Tokyo, Japan.

*Master's students*

- 2024 Andrew Kittredge (Advisor, MA Thesis) *Land Surface Temperature Change in New York City, 1985-2023: A Historical Analysis*, Hunter College, Department of Geography and Environmental Science.
- 2023 Gowri Anand (Advisor, MA Thesis) *Identifying Social Sensitive Populations Susceptible to New York City's Coastal and Pluvial Flooding: A vulnerability Analysis*, Hunter College, Department of Geography and Environmental Science.
- 2023 Peter Cunningham (Advisor, comprehensive test option), Hunter College, Department of Geography and Environmental Science.
- 2022 Jessica Stretton (Advisor, MA Thesis) *Drivers and Distribution of Solar PV in New York State*, Hunter College, Department of Geography and Environmental Science.
- 2022 Camila Oliveira (Advisor, M.A. comprehensive test option) Hunter College, Department of Geography and Environmental Science.
- 2021 Gabe Schuster (Reader, M.A. thesis), *(Re)Imagining Eminent Domain: The Embodied Imaginaries of the Atlantic Yards – Barclays Center Project*, Hunter College, Department of Geography and Environmental Science.
- 2020 Akil Sandy (Advisor, M.A. comprehensive test option), Hunter College, Department of Geography and Environmental Science.
- 2019 George Golub (Advisor, M.A. comprehensive test option), Hunter College, Department of Geography

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- 2017 Marianna Schroeter (Reader, M.A. thesis) *Native and exotic street trees: A Spatio-temporal analysis in New York City*, Hunter College, Department of Geography
- 2016 Garrett Hauschild (Reader, M.A. comprehensive test option), Hunter College, Department of Geography
- 2015 Xi Lu (Reader, M.A. thesis) *Effectiveness of public participation in environmental mass incidents: A comparative analysis of three cases in China*, Columbia University, Graduate School of Architecture, Planning and Preservation.
- 2015 Frances Irene Uy (Reader, M.A. thesis), *Energy pricing in the Philippines and its effect on economic growth*, Columbia University, Graduate School of Architecture, Planning and Preservation.
- 2015 Daniel Hewes (Reader, M.A. thesis) *Community led disaster planning: Lessons learned in Red Hook, Brooklyn post Superstorm Sandy*, Columbia University, Graduate School of Architecture, Planning and Preservation.
- 2015 Houman Saberi (Reader, M.A. thesis) *Urban digital divides and wireless mesh networks: A new arena for planning*, Columbia University, Graduate School of Architecture, Planning and Preservation.
- 2015 Wallace Murray (Advisor, M.A. thesis) *Comparing three methods for estimating ozone depleting substance substitute greenhouse gases: Case study of the New York City Region*, Hunter College, Department of Geography.
- 2015 Pawel Tomasz Zablocki (Advisor, M.A. thesis) *Suitability of Great South Bay, New York to Blooms of *Pfiesteria piscicida* and *P. Shumwayae* Prior to Superstorm Sandy, October 29, 2012*, Hunter College, Department of Geography.
- 2015 Jennifer Devlin (Advisor, M.A. thesis) *Green schools – A New Model in Environmental Education: A Case Study of Massachusetts Public Secondary Schools*, Hunter College, Department of Geography.
- 2013 Paradorn Wongchanapai (Reader, M.A. thesis) *Land Use Cover Change in Ratchaburi, Province, Thailand, 1989-2004*, Hunter College, Department of Geography.
- 2012 Gwen Hill (Advisor, M.A. thesis) *Deconstructing the Urban Agriculture Movement: Utilizing Discourse Analysis to Examine the Framing Processes of Urban Farms in New York City*, Hunter College, Department of Geography.
- 2012 Kevin Jenkins (Advisor, M.A. thesis) *An Assessment of the Integration Intent of New York City's 1969 School Decentralization Law and its Associated District Boundary Delineation Process*, Hunter College, Department of Geography.

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- 2012 Andrew Trager (Advisor, M.A. thesis) *Bike-Sharing Rental Location Suitability Analysis for Manhattan, New York City*, Hunter College, Department of Geography.
- 2012 Judy Chang (Reader, M.A. thesis) *Is this urbanity? Assessing the completeness of six Los Angeles cities*, Columbia University, Graduate School of Architecture, Planning and Preservation.
- 2010 Jake Garcia (Reader, M.A. thesis), *Carbon Emissions Trends Among World Cities*, Hunter College, Department of Geography.
- 2010 Sam Frank (Reader, M.A. thesis), *Investigating the impacts of Department of Homeland Security programs and funding on the surveillance infrastructure and public spaces of New York City*, Hunter College, Department of Geography
- 2010 Thor Ritz (Reader, M.A. thesis), *Facing the Food Crisis From the Belly of the Beast: The Politics of Urban Agriculture Projects in New York City*, Hunter College, Department of Geography.
- 2010 Alexandra Sullivan (Reader, M.A. thesis), *The Form and Function of Urban Agriculture in the New York Metropolitan Area*, Hunter College, Department of Geography.
- 2010 Joe Melara (Reader, M.A. thesis), *Urban flooding and the fragmentation of spatial and storm water planning in San Salvador, El Salvador*, Columbia University, Graduate School of Architecture, Planning and Preservation.
- 2010 Peter J. Katz (Reader, M.A. thesis), *A case study of coastal wetland: Current legislation and future climate change*, Columbia University, Graduate School of Architecture, Planning and Preservation.
- 2010 Itir Bahar Sonuparlak (Reader, M.A. thesis), *Impacts of socio-economic factors on recycling diversion rates in New York City*, Columbia University, Graduate School of Architecture, Planning and Preservation.
- 2009 Jason Nu, (Advisor, M.A. thesis) *From Kockums Crane to Turning Torso: Prestige Projects, Sustainability and Strategies of Urban Image Making in the Entrepreneurial City of Malmö, Sweden*, Hunter College, Department of Geography.

#### *Undergraduate students*

- 2024 Annie Guan (Advisor), Honor's Environmental Studies Capstone, *Air Temperature, Trees, and Income in NYC*
- 2024 Ruttima Sayananon (Advisor), Honor's Environmental Studies Capstone, *How does implementing urban heat island reduction strategies correlate with the land surface temperatures in Queens in 1995 and 2020?*

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- 2023 Thomas Harty (Advisor) Environmental Studies Capstone, *Improving Transportation Sustainability and Equity in New Jersey through Public Passenger Rail Infrastructure Investment*
- 2023 Melanie Rios (Advisor). Honor's Environmental Studies Capstone, *Energy Burden Hotspots: NYC*
- 2023 Sara Roshini (Advisor), Honor's Environmental Studies Capstone, *A Life-Cycle Assessment of Offshore Wind Turbines in The Northeast*
- 2022 Kaitlyn Laurenzi (Advisor), Environmental Studies Capstone, *Real-Time Indoor Air Quality Analysis*
- 2021 Anapaula Abarca (Advisor), Environmental Studies Capstone, *Climate in Gentrifying Communities*
- 2020 Adam Clark (Advisor), Environmental Studies Capstone, *Solar Bus Shelters: How much power production is possible by retrofitting NYC bus shelters with PV applications?*
- 2020 Jocelyn Spencer (Advisor), Environmental Studies Capstone, *Impact of Urbanization and Extreme Heat Events and Vulnerable Communities: A NYC Case Study.*
- 2020 Shelia Chu (Advisor), Honor's Environmental Studies Capstone, *What is the NYC Compost System? A study of how NYC composts- its start and evolution.*
- 2020 Ziteng Amzaliag (Advisor), Environmental Studies Capstone, *E-Waste Programs in New York City.*
- 2020 Ariana Motalvo (Advisor), Geography Capstone, *Adult Education and Literacy in New York City.*
- 2020 Christina Russo (Advisor), Environmental Studies Capstone, *Concentrations of Ambient Airborne Nickel and Vanadium in New York City: Sources, Spatial and Seasonal Variability, and Implications for Health and Environmental Justice.*
- 2019 Rose Pearl (Advisor), Geography Capstone, *Antimicrobial Resistance: Development and Climate Change as a Contributing Factor.*
- 2019 Veronica Rodriguez (Advisor), Environmental Studies Capstone, *Flood Risk for New York City.*
- 2019 Cindy W. Rodriguez (Advisor), Environmental Studies Capstone, *The U.S. Perception of Climate Change Increasingly Shifts Towards Desiring Positive Change.*
- 2018 Ashley Brown (Advisor), Geography Capstone, *A History of Recycling in New York City.*
- 2018 Billie Rushe (Advisor), Geography Capstone, *Community Perception and Utilization of Green space: A Case Study of Prospect Lefferts Gardens in New York City.*
- 2016 Christopher Freire (Advisor), Thomas Hunter Honor's Program, Independent Interdisciplinary



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Thesis, *Flushing Meadow Corona Park, A Case Study on Past and Potential Flooding in the Context of NYC Plans and Policies.*

- 2016 Maya Landy (Advisor), Geography Capstone, *Teaching Environmental Education in Manchester, New Hampshire: "Because I want to help the whole Earth".*
- 2015 Sharon Avnon (Advisor) Geography Honors Capstone *Organic Waste Processing Capacity in the New York City Metropolitan Region.*
- 2015 Janira Cotto (Advisor) Environmental Studies Capstone *California Challenged by Climate Change.*
- 2015 Jill Benzer (Mentor) Environmental Studies Independent Study, *Exploring the Soil.*
- 2015 Joseph Pearl (Advisor) Environmental Studies Honors Capstone, *Vulnerability and Sea Level Rise: Defined and Applied to New York City.*
- 2015 Marjorie Jablonski (Advisor) Environmental Studies Honors Capstone, *Urbanization and Energy Consumption in Contemporary Cambodia.*
- 2015 Michael Lanci (Advisor) Environmental Studies Honors Capstone, *Greenhouse Gas Emissions and Material Flows in the New York City Metropolitan Area.*
- 2014 Robert Flaucher (Advisor) Environmental Studies Honors Capstone, *Urban Metabolism and Beyond: A Sustainability Model for New York City.*
- 2014 Jane Deng (Advisor) Environmental Studies Honor's Capstone, *The Trend in White-tailed Deer.*
- 2014 Allison I. Villegas Roman (Advisor) Environmental Studies Internship Capstone, *Evaluating White-tailed Deer (*Odocoileus virginianus*) Management in North American and Accessing the Best Management Method for Staten Island.*
- 2014 Crystal Yeh (Advisor) Environmental Studies Honors Capstone, *China's Energy Profile and Carbon Dioxide Emission Trends: Evaluating if China Will Meet its 2030 Goal.*
- 2014 Silvia Cohn (Mentor) Environmental Studies Independent Study, *New Evidence on How Climate Affected Human Evolution.*
- 2014 Iru Choi (Advisor), Environmental Studies Capstone, *Untitled.*
- 2014 Anthony Margulies (Advisor) Environmental Studies Honors Capstone, *The Cost of Invasive Species.*
- 2014 Sarah Vorsanger (Advisor) Environmental Studies Honors Capstone, *How the Rise of the Isthmus of*

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*Panama Led to Northern Hemisphere Glaciations in the Late-Pliocene Epoch.*

- 2014 Jason Oscana (Advisor) Environmental Studies Capstone, *Water Management and Vertical Farming: A Case study of the Philippines.*
- 2014 Sana Kahn (Advisor) Environmental Studies Capstone, *Water are the Different Levels of Methane Emission at Similar Levels of GDP in the United States and China?*
- 2014 Robert Flaucher (Advisor), Environmental Studies Independent Study, *Water Data in Connecticut: A Work in Progress.*
- 2014 Agnieszka Gugala (Advisor) Environmental Studies Honors Capstone, *Roots in the Sky: Trends in Rooftop Agriculture in New York City.*
- 2014 Shannon Doherty (Advisor) Environmental Studies Independent Study, *Granted-TGIF and the Process of Making Sustainable Changes at Hunter College.*
- 2013 Sam Barnes (Advisor), Environmental Studies Independent Study, *Brooklyn and the Bioregion: Fostering Sustainable Community in New York City in the Face of a Changing Climate.*
- 2013 Lauren Wagner (Advisor) Environmental Studies Independent Study, *Maintaining Neotropical Symmetry: The Balance of Urban Development and Native Species Protection.*
- 2013 Kyrlo Heychenko (Advisor) Environmental Studies Capstone, *Analysis of Household Energy Consumption Choices in the United States.*
- 2013 Sam Barnes (Advisor) CUNY Baccalaureate Independent Study, *At the Bottom of the Bottom of the World: Columbia University's Research on the Antarctic Lake Vostok.*
- 2013 Amanda Perkins (Advisor) Environmental Studies Capstone, *The Urban Rooftop: Reclaiming the Lost Frontier.*
- 2013 Angelica Garcia-Morales(Advisor) CUNY Baccalaureate Independent Study, *Searching for Sustainability High and Low: Organic Farming and its Growing Urban Counterpart.*
- 2013 Leakhena Sok (Advisor) Environmental Studies Capstone, *What is the Spinach Food System for New York City?*
- 2013 Mili Patel (Advisor) Environmental Studies Capstone, *Sustainable Agriculture, Current Agricultural System and the Role of Social Movements.*
- 2013 Sam Levine (Advisor) Environmental Studies Capstone, *Changes in Migration Timing in Bird Species*

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*Native to New York State in Response to Climate Change.*

- 2012 Minzhi Hao (Advisor) Environmental Studies Capstone, *Nuclear Power Production and Usage in Major Countries Around the World.*
- 2012 Lakshman Kalaspudi (Advisor) Environmental Studies Honors Capstone, *The Nutrition Transition in India and the Role of the Supermarket Revolution.*
- 2012 Edgar Scottborough (Advisor) Environmental Studies Capstone, *Urban Heat Island Effect in New York City.*
- 2012 Brigitte Walsh (Advisor) Environmental Studies Capstone, *Environmental Education Services in NGOs: Case study of the Human Impact Institute program.*
- 2012 Jill Benzer (Advisor) Independent Study, *Highlights of Present Day pre-European New York City Biodiversity, by Season.*
- 2011 Eri Maturra (Advisor) Environmental Studies Capstone, *Decentralized Energy Production Systems in Japan and Denmark.*
- 2011 Anny Lam (Advisor) Environmental Studies Capstone, *The Yogurt Food System in New York City.*
- 2011 Shanni Liang (Advisor) Environmental Studies Capstone, *The Banana Food System in New York City.*
- 2011 Jasmine Bayron (Advisor) Environmental Studies Capstone, *Production of Cabbage in New York and Its Environmental Implications.*
- 2011 Tracy Tran (Advisor) Environmental Studies Capstone, *Greenhouse Gas Emissions from the Transportation of Animal Feed in the USA: An Analysis of Distribution to Metropolitan Areas/Cities and non-Metropolitan Areas/non- cities.*
- 2011 Jacqueline Incorvaia (Advisor) Environmental Studies Capstone, *A History of Restaurants.*
- 2011 Jill Benzer (Advisor) Independent Study, *Native Plant Gardens of New York City.*
- 2011 Amanda Ye (Advisor) Environmental Studies Capstone, *The Chocolate Food System in New York City: Developments and Impacts*
- 2011 Chris Bride (Advisor) Environmental Studies Capstone, *A Comparative Analysis of Seven Urban Food Policy Recommendation Documents.*
- 2011 Julita Mienko (Advisor) Environmental Studies Honors Capstone, *Access to Fresh Fruit at CUNY.*

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- 2011 Chelsea Lorino (Advisor) Environmental Studies Capstone, *Hydroponics on the Science Barge*.
- 2010 Russell Hedberg (Advisor) Independent Study, *The Influence of State Water Law on Urban Storm Water Management: Establishing the Link*.
- 2010 Megan Porter (Advisor) Independent Study *Big Bellies in Manhattan: Environmental Implications of Providing a New Solid Waste Management Technology*.
- 2010 Lorraine Rolston (Advisor) Environmental Studies Capstone, *Rice Use and Urban Food Systems: An Analysis for New York City, The Economic Impact of Regional and Global Infrastructures and Processes on Local Economies*.
- 2010 Jeninne Osbon (Advisor) Environmental Studies Capstone, *Adolescent Eating Habits and Nutrition Education: A National and Regional Overview*.
- 2009 Chris Bride (Advisor) Independent Study, *The Politics of Congestion Pricing*.
- 2009 Leonardo Delgado (Advisor) Environmental Studies Honors Capstone.
- 2009 Jeanette Rodgers (Advisor), Environmental Studies Capstone, *What are the Characteristics of Hydroponic Farming that Make it Applicable to New York City?*
- 2009 Mike Levay, (Advisor) Environment Studies Honors Capstone, *Energy Analysis of Meat Production and Consumption in the New York City Urban Ecosystem*.
- 2009 Thomas Kyaw (Advisor) Environment Studies Capstone, *Tuberculosis in New York City*.
- 2008 Ya-Yi Deng, (Advisor) Environmental Studies Honors Capstone, *Water Pollution and its Potential Health Impacts in the People's Republic of China*.
- 2008 Joomi Kim (Advisor) Environmental Studies Capstone, *Meat Consumption in New York City*.
- 2008 John Stigletz (Advisor) Independent Study, *The Composition of Meat*.

## **V ACADEMIC AND PROFESSIONAL HONORS**

- 2017 Hunter College Faculty Fellowship leave (January – December 2017)
- 2017 Columbia University, Graduate School of Architecture Planning and Preservation, Center for Spatial Research Fellowship Recipient

**Name:** Peter J. Marcotullio

**College:** Hunter College

- 2013 Hunter College Presidential Travel Award Recipient
- 2012 Hunter College Presidential Travel Award Recipient
- 2011 Aspen Environmental Forum Scholar.
- 2011 Hunter College Presidential Travel Award Recipient.
- 2009 Hunter College Presidential Travel Award Recipient.
- 2005 Zayed Prize for Scientific and Technological Achievement in Environment (as one of 1,360 scientists who contributed to Millennium Ecosystem Assessment).
- 1987-93 Columbia University Presidential Fellowship.

## **VII ADMINISTRATIVE AND OTHER SERVICE ON BEHALF OF THE COLLEGE**

### **A. Continuous/regular service**

- 2020-present Admissions Committee, Graduate Center, City University of New York, Ph.D. program in Earth and Environmental Science.
- 2021-present Undergraduate Environmental Studies Advisor, Department of Geography and Environmental Science, Hunter College, CUNY
- 2016-present Affiliate faculty, Advanced Science Research Center, CUNY
- 2015-present Director, CUNY Institute for Sustainable Cities (CISC).
- 2015-2021 Programming and Budgeting Committee (P&B), Department of Geography, Hunter College
- 2013-present The Hunter College Green Initiative Fund (TGIF) Grant Making Committee. This committee has responsibilities for the governance of the TGIF fund. We also vote on awards of applications every fall from students on an annual basis.
- 2013-2019 Faculty Associate, Roosevelt House, Hunter College.
- 2012-present Doctoral Faculty, Graduate Center, City University of New York, Ph.D. program in Earth and Environmental Science.

**Name:** Peter J. Marcotullio

**College:** Hunter College

2012-2021	Roosevelt House Public Policy Program Faculty Committee.
2018-2020	MA Graduate Advisor, Department of Geography, Hunter College, CUNY
2009-2014	Deputy Director, CUNY Institute for Sustainable Cities (CISC).
2013-2014	Macaulay College Council Faculty member. This is a 2-year commitment to the Macaulay Honor's College. I sit on this committee and on the Governance sub-committee.
2011-2014	Hunter College Macaulay Honor's College Seminar 3 (Science and Technology) Coordinator.
2010-2014	Admissions Committee, Hunter College, Macaulay Honors College. Evaluate, interview and help identify successful applicant's admission to the program here at Hunter College.
2009-2014	Adviser, Environmental Studies Program, Geography Department.
2008-2014	Deputy Director, CUNY Institute for Sustainable Cities (CISC).
2007-present	Hunter Sustainability Council. This council meets approximately 5 times a semester to discuss issues relating largely to the physical plant of the College.

#### **B. Ad hoc service**

2021-present	Admissions Committee, Earth and Environmental Science Ph.D. Program, Graduate Center, CUNY.
2019	Search Committee member, Higher Education Officer, Department of Geography and Environmental Science, Hunter College.
2016	Search Committee member, Associate and Assistant Professor positions, Advanced Science Research Center (ASRC), Environmental Crossroads Initiative.
2015	Search Committee Chair, Senior Professor position, Advanced Science Research Center (ASRC), Environmental Crossroads Initiative.
2014	Search Committee Chair, Program Manager, CUNY Institute for Sustainable Cities.

**Name:** Peter J. Marcotullio

**College:** Hunter College

2013 Search Committee member, Roosevelt House Public Policy Program Director.  
2011 Search Committee member, Hunter College Macaulay Honor's College Director.  
2011 Pre-Health Professions Committee, Hunter College.

### **C. Former service**

2009-2011 Hunter College, Faculty Senate member.

## **VII RECORD AT HUNTER COLLEGE**

<u>Dates:</u>	<u>Rank and affiliation:</u>
September 1, 2007 to August 30, 2008	<i>Distinguished Lecturer</i> , Macaulay Honor's College, Department of Urban Planning and Department of Geography
September 1, 2008 to January 31, 2009	<i>Distinguished Lecturer</i> , Macaulay Honor's College, Department of Urban Planning and Department of Geography
February 1 2009 to August 27, 2014	<i>Associate Professor</i> , Department of Geography
April 28, 2010 to present	Certificate of Membership for Permanent Instructional Staff, CUNY
August 27, 2014 to present	<i>Full Professor</i> , Department of Geography

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