

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	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
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 Institute for Sustainable Cities	2015-present	Director
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

Name: Peter J. Marcotullio

College: Hunter College

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

## PUBLICATIONS

### **A. Edited Books**

- 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 and 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. Peer-Reviewed Book Chapters**

- 2015 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://tcdc2.undp.org/GSSDAcademy/SIE/Vol20prerelease.aspx>)
- 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, (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, MadhusudanKatti, 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 FabriceDeClerck, 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.
- 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, *et al.* "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, 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.),

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*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.
- 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 OoiGiok 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

- 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

- 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* (accepted July)
- 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. Hutyra, 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.
- 2014 Peter J. Marcotullio, Andrea Sarzynski, Jochen Albrecht and Niels Schulz, "A Top-Down Regional Assessment of Urban Greenhouse Gas Emissions in Europe," *Ambio: A Journal of the Human Environment*, 43(7): 957-968.
- 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.
- 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.

Name: Peter J. Marcotullio

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- 2012 Frans Berkhout, Peter J. Marcotullio and Tatsuya Hanaoka (eds.) "Understanding energy transitions," *Sustainability Science* 7(2): 109-111.
- 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.
- 2009 Peter J. Marcotullio, Tatiana Gadda and Alex Gasparatos, "Land use change and meat consumption in Tokyo and New York," *Asia Pacific Forum*, 43: 75-110.
- 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.
- 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 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).

Name: Peter J. Marcotullio

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- 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

- 2015 Peter J. Marcotullio "Cities and climate injustice (Part 2)," *UGECE Viewpoints*  
<https://ugecviewpoints.wordpress.com/2015/05/05/climate-injustice-and-cities-part-two/>.
- 2015 Peter J. Marcotullio "Cities and climate injustice (Part 1)," *UGECE Viewpoints*  
<https://ugecviewpoints.wordpress.com/2015/04/28/climate-injustice-and-cities-part-one/>.
- 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.
- 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.
- 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 (principle investigator) "Greening the apple: An open space plan for the City of New York," New York: Regional Plan Association.

## **PROFESSIONAL ACTIVITIES**

### **A. Grant Activities**

Name: Peter J. Marcotullio

College: Hunter College

- 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.
- 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 international projects

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

*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).

Name: Peter J. Marcotullio

College: Hunter College

*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, “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 and presentations (since 2010)**

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 March.

2015 *5th North American Carbon Project Principal Investigators Meeting*, Washington DC, USA, 26-29 January.

Name: Peter J. Marcotullio

College: Hunter College

- 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)
- 2013 *Human-Carbon Interactions in Urban Systems*, Carbon Cycle Scientific Steering Group and the Carbon Cycle Interagency Working Group project, National Center for Atmospheric Research, Boulder (NCAR), Colorado, USA (16-18 October).
- 2013 *Sustainability Science: Can Earth's and Society's Systems meet the Needs of 10 Billion People*, National Academy of Sciences, sponsored by the NAS, Washington DC, USA (30 September - 1 October).
- 2013 *Global Spatial Population Projections: What can be done now?* Hunter College, Roosevelt House, sponsored by IHDP-UGEC and CISC (27 September).
- 2013 *Asia: Urban Spaces, the Local Environment and Global Sustainability*, Woodrow Wilson Center, sponsored by USAID, Washington DC, USA (29 July).
- 2013 *Health, Agricultural and Water Risks Associated with Air Quality and Climate in Asia*, National Center for Atmospheric Research (NCAR), Boulder, Colorado, USA (9-12 July).
- 2013 *Climate Change and Public Health*, CUNY Graduate Center, NYC (23 January).
- 2012 *Urban Spatial Planning in Response to Climate Change*, Taipei, Taiwan (25 November – 1 December).

Name: Peter J. Marcotullio

College: Hunter College

- 2012 *Ernst Strugmann Forum: Rethinking Global Land Use in an Urban Era*, Frankfurt Germany (23-28 September).
- 2012 *Association of American Geographers Annual Meeting*, New York City, New York (24-28 February) (I did not attend, but my paper was presented by one of my research collaborators).
- 2012 *IHDP-UGEC Workshop: New Typologies of Urbanization in the Context of Global Change*, Hunter College, New York City, USA (26-28 January).
- 2011 *IHDP – UGEC Workshop: Urban Response to Climate Change in Asia - Understanding Mitigation and Adaptation Strategies*, Taipei, Taiwan (10-14 November).
- 2011 *APN Workshop: Urbanization and Climate in Asia*, Kobe, Japan (16-21 October).
- 2011 *UGEC – GLP Workshop: Sustainable Land Use in an Urbanizing World*, Copenhagen, Denmark (27-29 June).
- 2011 *International Conference of the Society for Human Ecology, Human Responsibility and Environmental Change: Planning, Process and Policy*, Las Vegas, NV, USA (20-23 April).
- 2011 *Industrial Transformation, Urbanization, and Human Security in the Asia Pacific*, IHDP Taiwan conference, Academia Sinica, Taipei, Taiwan (14-15 January).
- 2010 *Global City Power Index, 2010*, Columbia University Lecture Series in Architecture, Planning and Preservation, Columbia University, NY, New York (15 November).
- 2010 *CUNY Environmental Sciences Forum*, Graduate Center, CUNY, NY, New York (8 November).
- 2010 *IHDP-UGEC International Conference on Urbanization and Global Environmental Change, Opportunities and Challenges for Sustainability in an Urbanizing World*, Arizona State University, Phoenix (15-17 October).
- 2010 *CUNY Cross-roads Initiative on Urbanization*, Baruch College, New York (22 September).
- 2010 *International Council on Eco-City Development Board Meeting*, Chengde City, China (16-21 August).
- 2010 *Association of American Geographers Annual Meeting*, Washington DC, (14-18 April).
- 2010 *9<sup>th</sup> Annual Nature, Ecology & Society Colloquium, Promoting Interdisciplinary Research at CUNY*, CUNY Graduate Center, New York (5 March).

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

*Climate Injustice: Are There Solutions?* Hunter College, Roosevelt House Public Policy Institute, New York, (5-

Name: Peter J. Marcotullio

College: Hunter College

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).

*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*

Editorial board member -*Sustainability Science*, the journal on Integrated Research System on Sustainability Science (IR3S), Springer-Verlag, Tokyo.

#### *Review Work*

Invited Peer reviewer - United Nations University Press, Asia-Pacific Network for Global Environmental Change Research (APN), World Scientific Publishing, 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, Energy Policy, Environmental Science and Technology, 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, Landscape Ecology, Landscape and Urban Planning, Natural Resources Forum, Pacific Affairs, Regional Studies, Sustainability Science (IR3S), Urban Ecosystems, Urban Studies.*

### **F. Students Advised**

#### *Ph.D. Students*

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 CecyGadda (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 SumediAndonoMulyo (Reader, Ph.D. dissertation), *A study of the decentralization policy and its implications on districts and cities in Indonesia*, University of Tokyo, Japan.
- 2003 GulsanaraParvin (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.

*Masters students*

- 2015 Jennifer Devlin (Advisor, M.A. thesis) *Green schools – A New Model in Environmental Education: A Case*

Name: Peter J. Marcotullio

College: Hunter College

*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.
- 2012 Andrew Trager (Advisor, M.A. thesis) *Bike-Sharing Rental Location Suitability Analysis for Manhattan, New York City*, Hunter College, Department of Geography.
- 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.
- 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*

- 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*.

Name: Peter J. Marcotullio

College: Hunter College

- 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 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*.

Name: Peter J. Marcotullio

College: Hunter College

- 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 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*

Name: Peter J. Marcotullio

College: Hunter College

*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.*
- 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.*

Name: Peter J. Marcotullio

College: Hunter College

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*.

## **VI. ACADEMIC AND PROFESSIONAL HONORS**

2013 Hunter College Presidential Travel Award Recipient

2012 Hunter College Presidential Travel Award Recipient

2011 Aspen Environmental Forum Scholar. The Aspen Institute and National Geographic have partnered to convene the annual Aspen Environment Forum. The Forum gathers a broad spectrum of key thought leaders for rich and engaging dialogue on the challenges of reconciling Earth's finite resources with its ability to sustain our expanding human needs. Forum Scholars are selected on the basis of their need, experience, achievements, and interest in energy and the environment, as well as their commitment and contributions to the field and include practitioners, entrepreneurs, academics, community organizers, members of the public, private, and independent sectors, and students. I was nominated for the 2001 Forum which focused on population, urbanization and the environment.

2011 Hunter College Presidential Travel Award Recipient.

2009 Hunter College Presidential Travel Award Recipient.

2005 Zayed Prize for Scientific and Technological Achievement in Environment (one of 1,360 scientists who contributed to Millennium Ecosystem Assessment).

1987-93 Columbia University Presidential Fellowship.

## **X. ADMINISTRATIVE AND OTHER SERVICE ON BEHALF OF THE COLLEGE**

### **Continuous/regular service**

2015-present Director, CUNY Institute for Sustainable Cities (CISC).

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.

Name: Peter J. Marcotullio

College: Hunter College

- 2013-present Faculty Associate, Roosevelt House, Hunter College. The Hunter College Roosevelt House Faculty Associates provide the backbone for the important work that takes place at Roosevelt House. Roosevelt House Faculty Associates participate in a wide variety of activities: they develop, guide and teach in the Public Policy and Human Rights Programs; undertake research that informs better policymaking; lead and participate in interdisciplinary faculty seminars; serve on Roosevelt House faculty committees; participate in conferences, lectures and public programs; and otherwise generously contribute their time and expertise towards the shared goal of enhancing the lively and growing academic community at Roosevelt House.
- 2012-present Roosevelt House Public Policy Program Faculty Committee. This committee is responsible for oversight of the Public Policy Program at Roosevelt House. We are currently engaged in writing the strategic plan for the program.
- 2012-present Doctoral Faculty, Graduate Center, City University of New York, Ph.D. program in Earth and Environmental Science.
- 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. The Hunter College Macaulay Honors College requires four interdisciplinary seminars in the freshman and sophomore years. Seminar 3 focuses on "Nature and Environment in New York City." The coordinator helps to identify instructors, coordinate and strengthen curriculum and supervise field trips. At the request of the Director, I have also helped organize a 1-credit seminar course on "Grand Challenges in Science," which is given in the spring semester. In this class students are introduced to research in the sciences through presentations provided by Hunter College faculty members.
- 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. I have been on this committee for 4 years. The bulk of the work is performed over the winter break.
- 2009-2014 Adviser, Environmental Studies Program, Geography Department. I share this task with colleague, Frank Buonaiuto. Prof. Buonaiuto is responsible for the bulk of the advising from mid-July to January and I am for the January to mi-July. At the same time, I still respond to student requests during my "off" semester.
- 2008-2014 Deputy Director, CUNY Institute for Sustainable Cities (CISC). I share the Deputy

Name: Peter J. Marcotullio

College: Hunter College

Director position with Allan Frei. The Deputy Directors help to plan, convene and participate in related meetings, conferences and workshops. They also participate in generating applications for research funding. My specific roles is to help lead a New York City focused urban food research project at the institute and generate new research projects at the global scale.

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.

#### **Ad hoc service**

2014 (Spring) Search Committee Chair, Program Manager, CUNY Institute for Sustainable Cities.

2013 (Spring) Search Committee member, Roosevelt House Public Policy Program Director.

2011 (Spring) Search Committee member, Hunter College Macaulay Honor's College Director.

2011 (Summer) Pre-Health Professions Committee, Hunter College.

#### **Former service**

2009-2011 Hunter College, Faculty Senate member.

### **XI. RECORD AT HUNTER COLLEGE**

#### Dates:

September 1, 2007 to  
August 30, 2008

September 1, 2008 to  
January 31, 2009

February 1 2009 to  
August 27, 2014

April 28, 2010 to present

August 27, 2014 to present

#### Rank and affiliation:

*Distinguished Lecturer*; Macaulay Honor's College, Department of Urban  
Planning and Department of Geography

*Distinguished Lecturer*; Macaulay Honor's College, Department of Urban  
Planning and Department of Geography

*Associate Professor*, Department of Geography

Certificate of Membership for Permanent Instructional Staff, CUNY

*Full Professor*, Department of Geography

Document up-dated: 30 July 2015