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CURRICULUM VITA

William Duncan Solecki
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Education

Ph.D. 1990 Geography - Rutgers University, New Brunswick, New Jersey
M.A. 1987 Geography - Rutgers University, New Brunswick, New Jersey
B.A. 1984 Geography - Columbia University, New York, New York

Academic Positions

2013-2015 Interim Director, Science and Resilience Institute @ Jamaica Bay, Nine-institution consortium led by the City University of New York
2006-2014 Director, CUNY Institute for Sustainable Cities
2005-2007 Chair, Department of Geography, City University of New York-Hunter College
2004-2005 Fellow, Center for Place, Culture, and Politics, City University of New York–Graduate Center
2003- Professor, Department of Geography, City University of New York–Hunter College; Faculty, Earth and Environmental Science Doctoral Program, City University of New York–Graduate Center
2002-2003 Professor, Department of Earth & Environmental Studies, Montclair State University
1997-2002 Associate Professor, Department of Earth & Environmental Studies, Montclair State University
1996-1997 Associate Professor, Department of Geography, Florida State University
1991-1996 Assistant Professor, Department of Geography, Florida State University
1990-1991 Visiting Assistant Professor, Department of Geography and Planning, West Chester University

Selected Other Recent Appointments, Honors, and Affiliations

2015-current Co-Chair, New York City Panel on Climate Change, NPCC3
2014-current US National Research Council Round Table on Resiliency, Risk, and Extreme Events.
2013-current Founding Editor, *Journal of Extreme Events*, World Scientific publisher
2011-current Co-editor, *Current Opinion in Environmental Sustainability*, Elsevier publisher
2008-current Founder and co-director of the Urban Climate Change Research Network – UCCRN.org
2013-2014 Co-Chair, New York City Panel on Climate Change, NPCC2
2011-2014 U.S. National Climate Assessment, Coordinating Lead Author, Chapter 11, Urban, Infrastructure, and Vulnerability.
2010 -2014 Intergovernmental Panel on Climate Change, Lead Author, Chapter 8, Urban Areas, Working Group II, 5th Assessment Report
2011 Fulbright Award, Specialist Program, Ireland – University of Ireland - Maynooth
2009-2011 Integration Action Committee, Technical Advisor, New York State Climate Action Council.
2009-2011 Climate Change Adaptation, Technical Working Group Member, New York State Climate Action Council.
2010 NPCC, co-chair, award – Steward of the Harbor – Metropolitan Waterfront Alliance
2008-2011 Co-Chair, New York City Panel on Climate Change, NPCC1
2006-2014 Scientific Steering Committee, Urbanization and Global Environmental Change Core Project, International Human Dimensions Programme

2006-2007 Intergovernmental Panel on Climate Change, Contributing Lead Author, three chapters, Working Group II, 4th Assessment Report

Selected Publications (since 2010)

- Seto K. and Solecki W. eds. (2015). *Handbook in Urbanization and Global Environmental Change*. Routledge Press. In press.
- Solecki W. and Rosenzweig C. (2015). Climate Change and Cities. In *Cities as Heroes in the Face of Environmental Change*. Bai, X. Ed. Yale University Press. In press.
- Solecki W. (2015). *Climate Change and U.S. Cities: Vulnerability, Impacts, and Adaptation*. In Land Policy Annual Review. Lincoln Land Institute, Chicago, IL. In press.
- O'Neill B C, Krieglger E., Kristie L, Ebi K L, Kemp-Benedict E, Riahi K, Rothman D, van Ruijven B, van Vuuren D P Birkmann J, Kokk K, Levy M, Solecki W. (2015). The Roads Ahead: Narratives for Shared Socioeconomic Pathways describing World Futures in the 21st Century. *Global Environmental Change*. In press.
- Solecki W., Patrick L, and Springings Z. (2015). Urban Climate Change Policy Transitions: A View from New York City. In *Adaptive Challenge of Climate Change*, K. O'Brien and E. Selboe editors. New York, Cambridge University Press. In press.
- Solecki, W. (2015). Hurricane Sandy in New York, Extreme Climate Events and the Urbanization of Climate Change: Perspectives in the Context of Sub Saharan African Cities. In *Current Opinion in Environmental Sustainability*. 13: 88-94.
- New York City Panel on Climate Change. (2015). *A Knowledge Base for Climate Resilience in New York City: Post-Hurricane Sandy Science and Assessment*. C. Rosenzweig and W. Solecki editors. New York Academy of Sciences. Vol. 1336
- Solecki W, Rosenzweig C, Gornitz V, Horton R, Major D C, Patrick L, and Zimmerman R, (2015). Climate Change and Infrastructure Adaptation in Coastal New York City. In *Climate Change and the Coast: Building Resilient Communities*, Bruce Glavovic, Mick Kelly, Robert Kay, Ailbhe Travers editors. CRC Press, Boca Raton, FL.
- Patrick L, Solecki W, Jacob K, Kunreuther H, and Nordenson G. (2015). Mapping Methods and Products. In *A Knowledge Base for Climate Resilience in New York City: Post-Hurricane Sandy Science and Assessment*. New York Academy of Sciences. Vol. 1336, 44-55.
- Solecki W, Rosenzweig C, Blake R, de Sherbinin A, Matte T, Moshary F, Rosenzweig B, Arend M, Gaffin S, Bou-Zeid E, Rule K, Sweeny G, and Dessy W. (2015). Indicators and Monitoring. In *A Knowledge Base for Climate Resilience in New York City: Post-Hurricane Sandy Science and Assessment*. New York Academy of Sciences. Vol. 1336, 89-106.
- Solecki W (2014). Contextualising the challenge of adapting human settlements. In *Applied Studies in Climate Adaptation*, J P Palutikof, S L Boulter, J Barnett, and David Rissik editors. Wiley: New York.
- Rosenzweig, C. & Solecki, W. (2014). Hurricane Sandy and adaptation pathways in New York: Lessons from a first-responder city. *Global Environmental Change* 28: 395-408.
- Solecki, W. and Rosenzweig C. (2014). Climate change, extreme events, and Hurricane Sandy: From Non-Stationary Climate to Non-Stationary Policy. *Journal of Extreme Events*. 1(1): 5-25.
- Cutter, S. L., W. Solecki, N. Bragado, J. Carmin, M. Fragkias, M. Ruth, and T. J. Wilbanks, (2014). Ch. 11: Urban Systems, Infrastructure, and Vulnerability. *Climate Change Impacts in the United States: The Third National Climate Assessment*, J. M. Melillo, Terese (T.C.) Richmond, and G. W. Yohe, Eds., U.S. Global Change Research Program, 11-1-nn.
- Revi A, Satterthwaite D, Aragon-Duran F, Corfee-Morlot J, Kiunsi, RBR, Pelling M, Roberts D., Solecki, W., Gajjar, S.P., and Sverdluk, A. (2014). Towards transformative adaption in cities: the IPCC's Fifth Assessment. *Environment & Urbanization*. 26(1): 11-28.
- Harden C, Chin A, English M R, Fu R, Galvin K, Gerlak A, McDowell P, McNamara D, Peterson J, Poff N L, Rosa E, Solecki W D, Wohl E. (2014). Understanding human-landscape interactions in the "Anthropocene." *Environmental Management*. 53(1):4-13.
- Intergovernmental Panel on Climate Change. (2014). Lead-author (one of six) on the Urban Areas chapter (chapter 8). 2014. *Climate Change 2014: Impacts, Adaptation, and Vulnerability Chapter 8. Urban Areas*. Coordinating Lead Authors: Aromar Revi (India), David Satterthwaite (UK): Lead

- Authors Fernando Aragón-Durand (Mexico), Jan Corfee-Morlot (USA / OECD), Robert B.R. Kiunsi (United Republic of Tanzania), Mark Pelling (UK), Debra Roberts (South Africa), William Solecki (USA): Contributing Authors: Jo da Silva (UK), David Dodman (Jamaica), Andrew Maskrey (UK), Sumetee Pahwa Gajjar (India), Raf Tuts (Belgium) (Released March 2014)
- Intergovernmental Panel on Climate Change (2014). *Climate Change 2014: Impacts, Adaptation, and Vulnerability TECHNICAL SUMMARY*. Coordinating Lead Authors Christopher Field (USA), Vicente Barros (Argentina), Katharine Mach (USA), Michael Mastrandrea (USA); Lead Authors Maarten van Aalst (Netherlands), Neil Adger (UK), Douglas Arent (USA), Jonathon Barnett (Australia), Richard Betts (UK), Eren Bilir (USA), Joern Birkmann (Germany), JoAnn Carmin (USA), Dave Chadee (Trinidad and Tobago), Andrew Challinor (UK), Monalisa Chatterjee (USA/India), Wolfgang Cramer (Germany/France), Debra Davidson (Canada), Yuka Estrada (USA/Japan), Jean-Pierre Gattuso (France), Yasuaki Hijioka (Japan), Ove Hoegh-Guldberg (Australia), He-Qing Huang (China), Gregory Insarov (Russian Federation), Roger Jones (Australia), Sari Kovats (UK), Patricia Romero Lankao (Mexico), Joan Nymand Larsen (Iceland), Inigo Losada (Spain), José Marengo (Brazil), Roger McLean (Australia), Linda Mearns (USA), Reinhard Mechler (Austria), John Morton (UK), Isabelle Niang (Senegal), Taikan Oki (Japan), Jane Mukarugwiza Olwoch (South Africa), Maggie Opondo (Kenya), Elvira Poloczanska (Australia), Hans-O. Pörtner (Germany), Margaret Hiza Redsteer (USA), Andy Reisinger (New Zealand), Aromar Revi (India), Daniela Schmidt (UK), Rebecca Shaw (USA), William Solecki (USA), Dáithí Stone (Canada/South Africa/USA), John Stone (Canada), Ken Strzepek (UNU/USA), Avelino Suarez (Cuba), Petra Tschakert (USA), Riccardo Valentini (Italy), Sebastian Vicuna (Chile), Alicia Villamizar (Venezuela), Katharine Vincent (South Africa), Rachel Warren (UK), Leslie White (USA), Thomas Wilbanks (USA), Poh Poh Wong (Singapore), Gary Yohe (USA)
- Intergovernmental Panel on Climate Change (2014). *Cross Chapter Box Urban-Rural Interactions – Context for Climate Change Vulnerability, Impacts, and Adaptation 2014*. John Morton (UK), William Solecki (USA), Purnamita Dasgupta (India), David Dodman (Jamaica), Marta G. Rivera-Ferre (Spain)]. *Climate Change 2014: Impacts, Adaptation, and Vulnerability IPCC Working Group II*.
- Solecki, W., Frei, A., Guber, S., and Leichenko, R. (2013). *Hydrology, Vulnerability and Adaptation Implications of Hurricane Irene and Tropical Storm Lee: Case Study of the Mid-Hudson Valley and Greater Catskills Regions*. Project Report, NYSERDA.
- Solecki W, Seto K C, and Marcotullio P. (2013). It's time for an urbanization science. *Environment*, 55(1), 12-16.
- New York City Panel on Climate Change, (2013). *Climate Risk Information 2013: Observations, Climate Change Projections, and Maps*. C. Rosenzweig and W. Solecki (Editors), NPCC2. Prepared for use by the City of New York Special Initiative on Rebuilding and Resiliency, New York, New York.
- Marcotullio, P. and Solecki, W. (2013). What is a City? An Essential Definition for Sustainability. *Urbanization and Sustainability, Human-Environment Interactions Series*, C. Boone and M. Fragkakis editors. Volume 3, pp.11-25.
- Solecki W D. (2013, January 9). Reality, meaning, and legacy in New York City: Hurricane Sandy as an extreme event [Editorial]. IHDP Blog. Retrieved online: <http://www.ihdp.unu.edu/article/read/reality-meaning-and-legacy-in-new-york-city>
- Leichenko, R. and Solecki W. (2013). Climate change in suburbs: An exploration of key impacts and vulnerabilities. *Urban Climate*. 6:82-97.
- Solecki, W., Rosenzweig, C., Hammer, S., Mehrotra, S. (2012). The Urbanization of Climate Change: Responding to a New Global Challenge. In *The Urban Transformation Health, Shelter and Climate Change*, E. Sclar, N. Volavka-Close, and P. Brown, Eds. Earthscan from Routledge, 238 pp.
- Solecki, W. (2012). Moving toward urban sustainability: using lessons and legacies of the past. In *Metropolitan Sustainability: Understanding and Improving the Urban Environment*, ed. F. Zeman, Woodhead Publishing, Sawston, Cambridge, U.K., pp. 680-696.
- Solecki, W., O'Brien, K., and Leichenko, R. (2011). Disaster Risk Reduction and Climate Change Adaptation Strategies: Convergence and Synergies. *Current Opinion in Environmental Sustainability*.

- Rosenzweig, C., Solecki, W., Hammer, S., Mehrotra, S. Eds. (2011). *First Assessment of Research on Climate Change in Cities*. Cambridge University Press.
- Molnar, C., Ritz, T., Heller, B., and Solecki, W. (2011). Higher Education-Community Partnerships as a Framework for an Urban Sustainability Extension Service Program. *Environment*.
- Rosenzweig, C., Solecki, W.D., Degaetano, A. (2011). *ClimAID Report: An Assessment of Climate Impacts, Vulnerabilities and Adaptation Strategies for New York State*. New York State Energy Development Agency Project Report. In Press.
- Rosenzweig, C. Solecki, W.D. Blake, R. Bowman, M. Faris, C., Gornitz, V., Jacob, K., LeBlanc, A., Leichenko, R., Sussman, E., Yohe, G., Zimmerman, R. (2011). Developing coastal adaptation to climate change in New York City infrastructure-shed: process, approach, tools, and strategies. *Climatic Change*.
- Rosenzweig, C. and Solecki, W. eds. (2010). *Climate Change Adaptation in New York City: Building a Risk Management Response-Report of New York City Panel on Climate Change*. Annals of New York Academy of Sciences, Volume 1195.
- Leichenko, R., O'Brien, K. and Solecki, W. (2010). Climate Change and the Global Financial Crisis: A Case of Double Exposure. *Annals of the Association of American Geographers*. 100(4): 963–972.
- Rosenzweig, C. Solecki, W., Hammer, S.A., and Mehrotra, S. (2010). Cities Lead the in Climate-Change Action. *Nature*. October 21, 467: 909-911.

Presentations 2010 – (Selected)

Solecki has made numerous invited presentations including at Yale School of Environment and Forestry, MIT Urban Studies and Planning, Stanford Wood Institute for the Environment, National University of Ireland – Maynooth, Columbia University, New York University, University of Rhode Island, University of Maryland, Rockefeller Foundation, University of Warsaw, University College London – Royal Holloway, National Research Council, Arizona State University – CAPLTER, National Council for Science and the Environment, University of Michigan, AAAS Annual Conference, American Metrological Society Annual Meeting. Solecki also regularly presents at the Association of American Geographers and similar academic and professional conferences.

Major Funded Research Grants 2006 - (Selected)

- NOAA Regional Integrated Systematic Assessment. 2015-2020. \$3,500,000. Climate Change Research in the Urban Northeast (CCRUN). Solecki a co-PI.
- NSF, Sustainability Research Network. 2015-2020. \$15.0 million. Urban Resilience to Extremes Sustainability Research Network (UREx SRN). Solecki is a senior personnel collaborator.
- NSF, Rapid Grant. 2013-2015. \$53,250. Residential Transformation after Hurricane Sandy. Solecki is the P.I.
- NSF, Belmont Forum. 2014-2016. \$1.3 million. Transformation and Resilience on Urbanized Coasts. Solecki is a co-P.I.
- NYSERDA (New York State Energy Research and Development Agency). 2014-2016. \$350,000. Sustainable Orange County Project. Solecki is a co-investigator.
- Rockefeller Foundation. 2013-2015. \$449,000. Resilience and Jamaica Bay. Solecki is the P.I.
- National Park Science. 2014-2016 \$53,000. Historical Ecology and Resilience of Jamaica Bay. Solecki is the co-P.I.
- New York State 2020 Grant Challenge. 2014-2018. \$7.8 million. Science and Resilience Institute @ Jamaica Bay Development Funds. Solecki is the lead collaborator.
- NSF, \$1.3 million. Major research instrumentation grant for data storage, sharing, and preservations. Solecki is a named collaborator.
- NYC DEP, \$157,000. Title: Restoration of Salinity Gradients in Jamaica Bay, New York. Solecki is the P.I.
- Cities Alliance, \$75,000. Title: Assessment of Research on Climate Change in Cities (ARC3) Project Development. Solecki a co-P.I.
- IBM Smart Cities Initiative, \$60,000. Title: SmartWater for New York City Metropolitan Region, Solecki is a co-P.I.

- New York State Energy Research and Development Authority, \$1,007,000, Title: Integrated Assessment for Effective Climate Change Adaptation Strategies in New York State. Solecki is a co-P.I.
- Hudson River Improvement Fund, \$3,000, Title: Environmental Legacy of the Half Moon and the Sustainability Challenge; Nature and Environment of Metropolitan New York: 1609-2109. Solecki is a co-P.I.
- World Bank, \$25,000, Title: Adaptation Responses and Disaster Reduction. Solecki is the co-P.I.
- Sallan Foundation, \$25,610, Title: Cutting GHG Emissions from Buildings in New York City. Solecki is a co-P.I.
- World Bank, \$80,000, Title: Climate Change and Cities IPC3 Workshop. Solecki is a co-P.I.
- New Jersey Department of Environmental Protection, \$50,000, Title: Economic Impacts of Climate Change on New Jersey. Solecki is the P.I.
- Rausch Foundation, \$500,000, Title: Long Island 2035: Building Public Consensus around a Sustainable Future. Solecki is a co-P.I.
- Rockefeller Foundation, \$385,000, Title: Adaptation Strategies – New York City Panel on Climate Change. Solecki is the co-P.I.
- Landmarks West!, \$18,500, Title: Quantifying the Economic and Environmental Effects of Vegetation and Permeable Surfaces Within Brownstone Blocks on the Upper West Side of Manhattan. Solecki is the P.I.
- New York State Energy Research and Development Authority (NYSERDA), \$85,000, Title: Mitigating New York City's Heat Island with Urban Forestry, Living Roofs, and Light Surfaces. Solecki is the co-P.I.
- NASA, 2005-2006, \$20,000, Title: Reason Can – NASA EOPS Higher Education Alliance: Mobilization of NASA EOS Data and Information through Webservices. Solecki is a co-PI.

Service 2006 - (Selected)

- Co-organizer, Climate Change and Injustice Conference, Roosevelt House, Hunter College, March 2015.
- Scientific Steering Committee, 2nd International Conference on Urbanization and Global Environmental Change, UGEC - IHDP Conference, Taipei, Taiwan, November, 2014.
- Quoted in numerous print and film news media including NYT, WNET-TV regarding Hurricane Sandy, impacts, and vulnerability
- Scientific Steering Committee, International Conference on Urbanization and Global Environmental Change, UGEC - IHDP Conference, Tempe, Arizona, October, 2010.
- Summit Participant – Climate Summit for Mayors as part of COP15, Copenhagen, Denmark, December, 2009.
- Scientific Steering Committee, Cities and Climate Change: Responding to the Urgent Agenda, World Bank Conference, Marseille, France, June, 2009.
- President, Nature Network of Tri-State Metropolitan Region, 2007-2009.
- Committee membership on NSC National Academies (NRC), Member of Scientific Committee on Problems of the Environment (SCOPE), 2005-2009.
- President, Nature Network of Tri-State Metropolitan Region, 2007-2009.

Biographical Information

Date of Birth: August 15, 1962

Place of Birth: New York, NY

Citizenship: U.S.A.