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ACADEMIC APPOINTMENTS

YALE UNIVERSITY

7/2021– Faculty Director, Hixon Center for Urban Ecology
3/2021– Affiliated faculty, Yale School of Architecture
5/2017– Frederick C. Hixon Professor of Geography and Urbanization Science
7/2017–12/2018 Senior Associate Dean of Research, School of Forestry & Environmental Studies
7/2014–12/2018 Director of Doctoral Studies, School of Forestry & Environmental Studies
7/2014–7/2017 Associate Dean of Research, School of Forestry & Environmental Studies
7/2013–5/2017 Professor of Geography and Urbanization Science, School of Forestry & Environmental Studies
7/2008–6/2013 Associate Professor, School of Forestry & Environmental Studies

STANFORD UNIVERSITY

9/2003–7/2008 Assistant Professor, School of Earth Sciences
Department of Environmental Earth System Science (2007-2008)
Department of Geological and Environmental Sciences (2003-2007)
9/2007–7/2008 Center Fellow, Woods Institute for the Environment
9/2003–8/2007 Center Fellow, Center for Environmental Science and Policy, Freeman Spogli Institute for International Studies
9/2000–8/2003 Senior Research Scholar, Center for Environmental Science and Policy, Institute for International Studies

HONORS

2023 Elected lifetime member, Council on Foreign Relations
2022 Elected member, American Academy of Arts and Sciences
2018 Elected member, Connecticut Academy of Science and Engineering
2017 Elected member, U.S. National Academy of Sciences
2017 Elected fellow, American Association for the Advancement of Science

AWARDS

2022 American Geographical Society, Alexander and Ilse Melamid Medal
2022, 2021, 2020, Clarivate Highly Cited Researcher (top 1% of total citations across several fields)
2019, 2018
2020 Chinese Academy of Sciences, International Distinguished Scientist Fellowship (declined due to Covid-19)
2019 American Association of Geographers, Outstanding Contributions to Remote Sensing Research Award

2017	Ecological Society of America, Sustainability Science Award
2017	American Association of Geographers, Human Dimensions of Global Change Research Excellence Award
2015	Taiwan Ministry of Science and Technology Visiting Foreign Scholar Fellowship
2014	Faculty Award for Outstanding Teaching and Advising, Yale School of Forestry & Environmental Studies
2011	Danmarks Nationalbank (central bank of Denmark) Foreign Scientist Housing Award
2011	Taiwan National Science Council Visiting Foreign Scholar Fellowship
2009	Aldo Leopold Leadership Fellow
2004	NSF Faculty Early Career Development (CAREER) Award
2000	NASA New Investigator Program in Earth Science (Early Career) Award

EDUCATION

2000	Ph.D., Geography Boston University
1995	M. A., International Relations & Resource and Environmental Management Boston University
1991	B.A., Political Science, International Relations emphasis University of California, Santa Barbara

FIELDS OF SPECIALIZATION

- Urbanization, global change and sustainability
- Urbanization and food systems
- Urban mitigation of climate change
- Urbanization in Asia, especially China, India, and the Himalaya Region
- Modeling and forecasting urban expansion
- Remote sensing of urban land-use and land-cover change

VISITING APPOINTMENTS

1/2015-6/2015	National Taipei University, Taiwan Visiting Professor, Center for Global Change and Sustainability Science
5/2011-8/2011	University of Copenhagen, Denmark Visiting Professor, Department of Geography and Geology
9/2010-2/2011	National Taipei University, Taiwan Visiting Professor, Graduate Institute of Urban Planning

INTERNATIONAL SCIENTIFIC COMMITTEES

2018-2022	Coordinating Lead Author, Intergovernmental Panel on Climate Change (IPCC) Working Group III: Mitigation of Climate Change, <i>IPCC Sixth Assessment Report, Chapter 8: Urban Systems and Other Settlements</i>
2017-2018	Scientific Steering Committee, IPCC Cities and Climate Change International Scientific Conference
2005-2016	Co-Chair, Urbanization and Global Environmental Change Project, a core science project of Future Earth (formerly IHDP, the International Human Dimensions Programme)

- 2013–2014 International Geosphere-Biosphere Programme (IGBP) Anthropocene Synthesis Scientific Steering Committee
- 2010–2014 Coordinating Lead Author, Intergovernmental Panel on Climate Change (IPCC) Working Group III: Mitigation of Climate Change, *IPCC Fifth Assessment Report, Chapter 12: Human Settlements, Infrastructure and Spatial Planning*
- 2011–2013 Coordinating Lead Author and Editorial Team, United Nations Convention on Biological Diversity (CBD), *Cities and Biodiversity Outlook*
- 2009–2011 Scientific Steering Committee, IPCC Working Groups II and III, Expert Meeting on Human Settlements and Infrastructure
- 2005–2009 Scientific Steering Committee, Monsoon Asia Integrated Regional Studies (MAIRS), System for Analysis, Research, and Training (START)
- 2002–2008 Scientific Steering Committee, International Union for the Conservation of Nature (IUCN), Commission on Ecosystem Management

DOMESTIC SCIENTIFIC COMMITTEES

- 2023– Chair, U.S. National Academy of Sciences, Policy and Global Affairs Division
- 2022– Co-Chair, U.S. National Academies Climate Security Roundtable
- 2022– Co-Chair, U.S. National Academies Subcommittee on U.S.-China Scientific Engagement
- 2022– U.S. Department of Energy, Biological and Environmental Research Advisory Committee
- 2022 U.S. National Academy of Sciences, ad hoc committee on Enhancing Urban Sustainability Infrastructure: A Workshop on Mathematical Approaches for Optimizing Investments
- 2021– Chair, U.S. National Academies Subcommittee on U.S.-China Scientific Engagement on Sustainability – A Workshop Series
- 2019– U.S. National Academy of Sciences, Policy and Global Affairs Committee
- 2018 Chair, U.S. National Academy of Sciences ad hoc committee, in collaboration with the Chinese Academy of Sciences, on Urban Sustainability in China and the U.S.
- 2017–2018 NSF Advisory Committee for Environmental Research and Education, Subcommittee on Sustainable Urban Systems
- 2016–2018 NASA User Working Group for Land Processes Distributed Active Archive Center
- 2014–2016 U.S. National Research Council Committee on Pathways to Urban Sustainability: Challenges and Opportunities
- 2011–2014 U.S. National Research Council Geographical Sciences Committee
- 2010–2015 U.S. Carbon Cycle Science Steering Group

- 2011–2014 U.S. National Research Council Committee to Advise the U.S. Global Change Research Program
- 2011–2013 U.S. National Research Council Committee on Needs and Research Requirements for Land-Change Modeling
- 2008–2010 U.S. National Research Council Committee on Strategic Directions for the Geographical Sciences in the Next Decade
- 2006–2010 NASA User Working Group for the Socioeconomic Data and Applications Center (SEDAC)
- 2005–2006 U.S. National Research Council Committee on Earth System Science for Decisions About Human Welfare: Contributions of Remote Sensing

ADVISORY BOARDS

- 2020– Health Effects Institute, Board of Directors
- 2020– Gund Institute for Environment, University of Vermont, External Advisory Board
- 2020– MIT Department of Urban Studies and Planning Visiting Committee
- 2019– Stockholm Resilience Centre, International Science Advisory Council
- 2019– Beijer Institute of Ecological Economics, Royal Swedish Academy of Sciences, Advisory Board
- 2018– Mercator Research Institute on Global Commons and Climate Change (Berlin), Expert Advisory Board
- 2019–2022 The Nature Conservancy, Science Advisory Council
- 2017–2019 The Ian L. McHarg Center for Urbanism and Ecology, University of Pennsylvania, Board Member
- 2016–2019 Urban Dynamics Institute, Oak Ridge National Laboratory, Science Advisory Board

PEER-REVIEWED JOURNAL ARTICLES

117. Walker, B., Crépin, A-S., Nyström, M., Anderies, M., Andersson, E., Elmqvist, T., Queiroz, C., Barrett, S., Bennett, E., Cardenas, J.C., Carpenter, S.R., Chapin III, F.S., de Zeeuw, A., Fischer, J., Folke, C., Levin, S., Nyborg, K., Polasky, S., Segerson, K., **Seto, K.C.**, Scheffer, M., Shogren, J.F., Tavoni, A., van den Bergh, J., Weber, E.U., Vincent, J.R. 2023. Response diversity as a sustainability strategy, *Nature Sustainability*, <https://doi.org/10.1038/s41893-022-01048-7>.
116. Meyfroidt, P., de Bremond, A., Ryan, C. M., Archer, E., Aspinall, R., Chhabra, A., Camara, G., Corbera, E., DeFries, R., Diaz, S., Dong, J., Ellis, E. C., Erb, K-H., Fisher, J.A., Garrett, R. D., Golubiewski, N.E., Grau, H.R., Grove, J. M., Haberl, H., Heinemann, A., Hostert, P., Jobbagy, E.G., Kerr, S., Kuemmerle, T., Lambin, E. F., Lavorel, S., Lele, S., Mertz, O., Messerli, P., Metternicht, G., Munroe, D. K., Nagendra, H., Østergaard Nielsen, J., Ojima, D.S., Parker, D.S., Pascual, U., Porter, J.R., Ramankutty, N., Reenberg, A., Roy Chowdhury, R., **Seto, K.C.**, Seufert, V., Shibata, H., Thomson, A. Turner II, B.L., Urabe, J., Veldkamp, T., Verburg, P.H., Zeleke, G., zu Ermgassen, E.K.H.J. 2022. Ten facts about land systems for sustainability, *Proceedings of the National Academy of Sciences of the United States of America*, <https://doi.org/10.1073/pnas.2109217118>.

115. Kache, P.A., Santos-Vega, M., Steward-Ibarra, A.M., Cook, E. M., **Seto, K.C.**, Diuk-Wasser, M.A. 2022. Bridging landscape ecology and the urban sciences to respond to the rising threat of mosquito-borne diseases, *Nature Ecology and Evolution*. <https://doi.org/10.1038/s41559-022-01876-y>.
114. Keith, M., Birch, E., Buchoud, N.J.A., Cardama, M., Cobbett, W., Cohen, W., Elmqvist, T., Espey, J., Hajer, M., Hartmann, G., Matsumoto, T., Parnell, S., Revi, A., Roberts, D.C., Saiz, E., Schwanen, T., **Seto, K.C.**, Tuts, R., van der Putten, M. 2022. A new urban narrative for sustainable development, *Nature Sustainability*, <https://doi.org/10.1038/s41893-022-00979-5>.
113. Zhou, Y.Y., Li, X., Chen, W., Meng, L., Wu, Q., Gong, P., **Seto, K.C.** 2022. Satellite mapping of urban built-up height reveals extreme gaps and large inequality in infrastructure availability in the Global South, *Proceedings of the National Academy of Sciences of the United States of America*. <https://doi.org/10.1073/pnas.2214813119>.
112. Meng, F., Yuan, Q., Bellezoni, R., Puppim de Oliveira, J., Cristiano, S., Shah, A., Liu, G., Yang, Z., **Seto, K.C.** 2022. Quantification of the food-water-energy nexus in urban green and blue infrastructure: A synthesis of the literature, *Resources, Conservation & Recycling*, <https://doi.org/10.1016/j.resconrec.2022.106658>.
111. Edwards, M.R., Holloway, T., Pierce, R.B., Blank, L., Broddle, M., Choi, E., Duncan, B.N., Esparza, A., Falchetta, G., Fritz, M., Gibbs, H.K., Hundt, H., Lark, T., Leibrand, A., Liu, F., Madsen, B., Maslak, T., Pandey, B., **Seto, K.C.**, Stackhouse, P.W. 2022. Satellite data applications for sustainable energy transitions. *Frontiers in Sustainability*, <https://doi.org/10.3389/frsus.2022.910924>.
110. Frolking, S., Mahtta, R., Milliman, T., **Seto, K.C.** 2022. Three decades of global trends in urban microwave backscatter, building volume and city GDP, *Remote Sensing of Environment*, <https://doi.org/10.1016/j.rse.2022.113225>.
109. Pandey, B., Brelsford, C., **Seto, K.C.** 2022. Infrastructure inequality is a characteristic of urbanization, *Proceedings of the National Academy of Sciences of the United States of America*, <https://doi.org/10.1073/pnas.2119890119>.
108. Frolking, S., Milliman, T., Mahtta, R., Paget, A., Long, D., **Seto, K.C.** 2022. A global urban microwave backscatter time series data set for 1993-2020 using ERS, QuikSCAT, and ASCAT data, *Nature Scientific Data*, <https://doi.org/10.1038/s41597-022-01193-w>.
107. Simkin, R., **Seto, K.C.**, McDonald, R.I., Jetz, W. 2022. Biodiversity impacts and conservation implications of urban land expansion projected by 2050, *Proceedings of the National Academy of Sciences of the United States of America*, <https://doi.org/10.1073/pnas.2117297119>.
106. Mahtta, R., Fragkias, M., Guneralp, B., Mahendra, A., Reba, M., Wentz, E.A., **Seto, K.C.** 2022. Urban land expansion: the role of population and economic growth for 300+ cities, *npj Urban Sustainability*, <https://doi.org/10.1038/s42949-022-00048-y>.
105. Gurney, K.R., Kilkis, S., **Seto, K.C.**, Lwasa, S., Moran, D., Riahi, K., Keller, M., Rayner, P., Luqman, M. 2022. Greenhouse gas emissions from global cities under SSP/RCP scenarios, 1990 to 2100, *Global Environmental Change*, <https://doi.org/10.1016/j.gloenvcha.2022.102478>.
104. Chen, T.H.K., **Seto, K.C.** 2022. Gender and authorship patterns in urban land science, *Journal of Land Use Science*, <https://doi.org/10.1080/1747423X.2021.2018515>.

103. Rusk, J., Maharjan, A., Tiwari, P., Chen, T-H K., Shneiderman, S., Turin, M., **Seto, K.C.**, 2022. Multi-hazard susceptibility and exposure assessment of the Hindu Kush Himalaya, *Science of the Total Environment*, <https://doi.org/10.1016/j.scitotenv.2021.150039>.
102. Folke, C., Polasky, S., Rockström, J., Galaz, V., Westley, F., Lamont, M., Scheffer, M., Österblom, H., Carpenter, S.R., Chapin III, F. S., **Seto, K.C.**, Weber, E.U., Crona, B.I., Daily, G.C., Dasgupta, P., Gaffney, O., Gordon, L.J., Hoff, H., Levin, S.A., Lubchenco, J., Steffen, W., Walker, B.H. 2021. Our future in the Anthropocene biosphere, *Ambio*, <https://doi.org/10.1007/s13280-021-01544-8>.
101. Ramaswami, A., Tong, K., Canadell, J.G., Jackson, R.B., Stokes, E., Dhakal, S., Finch, M., Jittrapirom, P., Singh, N., Yamagata, Y., Yewdall, E., Yona, L., **Seto, K.C.** 2021. Carbon analytics for net-zero emissions sustainable cities, *Nature Sustainability*, <https://doi.org/10.1038/s41893-021-00715-5>.
100. **Seto, K.C.**, Churkina, G., Hsu, A., Keller, M., Newman, P.W.G., Qin, B., Ramaswami, A. 2021. From low- to net-zero carbon cities: The next global agenda, *Annual Review of Environment and Resources*, <https://doi.org/10.1146/annurev-environ-050120-113117>.
99. Elmqvist, T., Andersson, E., McPhearson, T., Bai, X., Bettencourt, L., Brondizio, E., Colding, J., Daily, G., Folke, C., Grimm, N., Haase, D., Ospina, D., Parnell, S., Polasky, S., **Seto, K.C.**, Van Der Leeuw, S., 2021. Urbanization in and for the Anthropocene, *npj Urban Sustainability*, <https://doi.org/10.1038/s42949-021-00018-w>.
98. Grainger, C., Tiwari, P.C., Joshi, B., Reba, M., **Seto, K.C.** 2021. Who is vulnerable and where do they live? Case study of three districts in the Uttarakhand region of India Himalaya, *Mountain Research and Development*, <https://doi.org/10.1659/mrd-journal-d-19-00041.1>.
97. Zimmerer, K., Duvall, C.S., Jaenicke, E.C., Minaker, L.M., Reardon, T., **Seto, K.C.** 2021. Urbanization and agrobiodiversity: Leveraging a key nexus for sustainable development, *One Earth*, <https://doi.org/10.1016/j.oneear.2021.10.012>.
96. Huang, K., Lee, X., Stone Jr., B., Knierl, J., Bell, M.L., **Seto, K.C.** 2021. Persistent increases in nighttime heat stress from urban expansion despite heat island mitigation, *Journal of Geophysical Research – Atmospheres*, <https://doi.org/10.1029/2020JD033831>.
95. Bellezoni, R.A., Meng, F., He, P., **Seto, K.C.** 2021. Understanding and conceptualizing how urban green and blue infrastructure affects the food, water, and energy nexus: A synthesis of the literature, *Journal of Cleaner Production*, <https://doi.org/10.1016/j.jclepro.2021.125825>.
94. Pandey, B., Reba, M., Joshi, P.K., **Seto, K.C.** 2020. Urbanization and food consumption in India, *Nature Scientific Reports*, <https://doi.org/10.1038/s41598-020-73313-8>.
93. Shughrue, C., Werner, B.T., **Seto, K.C.** 2020. Global spread of local cyclone damages through urban trade networks, *Nature Sustainability*, <https://doi.org/10.1038/s41893-020-0523-8>.
92. Reba, M., **Seto, K.C.** 2020. A systematic review and assessment of algorithms to detect, characterize, and monitor urban land change, *Remote Sensing of Environment* 242(1): 111739, <https://doi.org/10.1016/j.rse.2020.111739>.

91. Güneralp, B., Reba, M., Hales, B. U., Wentz, E. A., **Seto, K.C.** 2020. Trends in urban land expansion, density, and land transitions from 1970-2010: A global synthesis, *Environmental Research Letters*, 15(044015), <https://doi.org/10.1088/1748-9326/ab6669>.
90. Li, X., Zhou, Y., Gong, P., **Seto, K.C.**, Clinton, N. 2020. Developing a method to estimate building height from Sentinel-1 data, *Remote Sensing of Environment*, 240(111705), <https://doi.org/10.1016/j.rse.2020.111705>.
89. Adger, W.N., Crépin, A-S., Folke, C., Ospina, D., Chapin, F.S., Segerson, K., **Seto, K.C.**, Anderies, J.M., Barrett, S., Bennett, E.M., Daily, G., Elmqvist, T., Fischer, J., Kautsky, N., Levin, S.A., Shogren, J.F., van den Bergh, J., Walker, B., Wilen, J. 2020. Urbanization, Migration, and Adaptation to Climate Change, *One Earth*, <https://doi.org/10.1016/j.oneear.2020.09.016>.
88. Bren d'Amour, C., Pandey, B., Reba, M., Ahmad, S., Creutzig, C., **Seto, K.C.** 2020. Urbanization, processed foods and eating out in India, *Global Food Security*, <https://doi.org/10.1016/j.gfs.2020.100361>.
87. McDonald, R.I., Mansur, A.V., Ascensão, F., Crossman, K., Elmqvist, T., Gonzalez, A., Güneralp, B., Haase, D., Hamann, M., Hillel, O., Huang, K., Kahnt, B., Maddox, D., Pacheco, A., Pereira, A.M., **Seto, K.C.**, Simkin, R., Walsh, B., Werner, A.S., Ziter, C. 2019. Research gaps in knowledge of the impact of urban growth on biodiversity, *Nature Sustainability*, <https://doi.org/10.1038/s41893-019-0436-6>.
86. Mahtta, R., Mahendra, A., **Seto, K.C.** 2019. Building up or spreading out? Typologies of urban growth across 478 cities of 1 million+, *Environmental Research Letters*, <https://doi.org/10.1088/1748-9326/ab59bf>.
85. Huang, K., Li, X., Liu, X., **Seto, K.C.** 2019. Projecting global urban land expansion and heat island intensification through 2050, *Environmental Research Letters*, <https://doi.org/10.1088/1748-9326/ab4b71>.
84. Stokes, K., **Seto, K.C.** 2019. Characterizing urban infrastructural transitions for the Sustainable Development Goals using multi-temporal land, population, and nighttime light data, *Remote Sensing of Environment*, <https://doi.org/10.1016/j.rse.2019.111430>.
83. Román M.O., Stokes, E.C., Shrestha, R., Wang, Z., Schultz, L. Sepulveda Carlo, E.A., Sun, Q., Bell, J., Molthan, A., Kalb, V., Ji, C., **Seto, K.C.**, McClain, S.N., Enekel, M. 2019. Satellite-based assessment of electricity restoration efforts in Puerto Rico after Hurricane Maria, *PLOS One*, <https://doi.org/10.1371/journal.pone.0218883>.
82. Chai, B., **Seto, K.C.** 2019. Conceptualizing and characterizing micro-urbanization: A new perspective applied to Africa, *Landscape and Urban Planning*, <https://doi.org/10.1016/j.landurbplan.2019.103595>.
81. Zhu, Z., Zhou, Y., **Seto, K.C.**, Stokes, E.C., Deng, C., Pickett, S.T.A., Taubenböck, H. 2019. Understanding an urbanizing planet: Strategic directions for remote sensing, *Remote Sensing of Environment*, <https://doi.org/10.1016/j.rse.2019.04.020>.
80. Stokes, K., **Seto, K.C.** 2019. Characterizing and measuring urban landscapes for sustainability, *Environmental Research Letters*, <https://doi.org/10.1088/1748-9326/aafab8>.

79. Acuto, M., Parnell, S., **Seto, K.C.** 2018. Building a global urban science, *Nature Sustainability*, <https://doi.org/10.1038/s41893-017-0013-9>.
78. Pandey, B., Zhang, Q., **Seto, K.C.** 2018. Time series analysis of satellite data to characterize multiple land use transitions: A case study of urban growth and agricultural land loss in India, *Journal of Land Use Science*, <https://doi.org/10.1080/1747423X.2018.1533042>.
77. Shughrue, C., **Seto, K.C.** 2018. Systemic vulnerabilities of the global urban-industrial network to hazards, *Climatic Change*, <https://doi.org/10.1007/s10584-018-2293-0>.
76. Stokes, E., **Seto, K.C.** 2018. Tradeoffs in environmental and equity gains from job accessibility, *Proceedings of the National Academy of Sciences of the United States of America*, <https://doi.org/10.1073/pnas.1807563115>.
75. Wentz, E.A., York, A.M., Alberti, M., Conrow, L., Fischer, H., Inostroza, L., Jantz, C., Pickett, S.T.A., **Seto, K.C.**, Taubenböck, H. 2018. Six fundamental aspects for conceptualizing multidimensional urban form, *Landscape and Urban Planning*, <https://doi.org/10.1016/j.landurbplan.2018.07.007>.
74. McDonald, R. I., Güneralp, B., Huang, C-W., **Seto, K. C.**, You, M. 2018. Conservation priorities to protect vertebrate endemics from global urban expansion, *Biological Conservation*, <https://doi.org/10.1016/j.biocon.2018.06.010>.
73. Ürge-Vorsatz, D., Rosenzweig, C., Sanchez, R., Dawson, R., Bai, X., Salisu, A., **Seto, K.C.**, Dhakal, S. 2018. Locking-in positive climate responses in cities, *Nature Climate Change*, <https://doi.org/10.1038/s41558-018-0100-6>.
72. Moran, D., Kanemoto, K., Jiborn, M., Wood, R., Többen, J., **Seto, K.C.** 2018. Carbon footprints of 13,000 cities, *Environmental Research Letters*, <https://doi.org/10.1088/1748-9326/aac72a>.
71. Huang, C-W., McDonald, R.I., **Seto, K.C.** 2018. The importance of land governance for biodiversity conservation in an era of global urban expansion, *Landscape and Urban Planning*, <https://doi.org/10.1016/j.landurbplan.2018.01.011>.
70. Román, M.O., Wang, Z., Sun, Q., Kalb, V., Miller, S.D., Molthan, A., Schultz, L., Bell, J., Stokes, E.C., Pandey, P., **Seto, K.C.**, Hall, D., Oda, T., Wolfe, R.E., Lin, G., Golpayegani, N., Devadiga, S., Davidson, C., Sarkar, S., Praderas, C., Schmaltz, J., Boller, R., Stevens, J., Ramos González, O.M., Padilla, E., Alonso, J., Detrés, Y., Armstrong, R., Miranda, I., Conte, Y., Marrero, N., MacManus, K., Esch, T., Masuoka, E.J. 2018. NASA's Black Marble nighttime lights product suite, *Remote Sensing of Environment*, <https://doi.org/10.1016/j.rse.2018.03.017>.
69. Güneralp, B., Lwasa, S., Masundire, H., Parnell, S., **Seto, K.C.** 2018. Urbanization in Africa: Challenges and opportunities for conservation, *Environmental Research Letters*, <https://doi.org/10.1088/1748-9326/aa94fe>.
68. Lane, K.J., Stokes, E.C., **Seto, K.C.**, Thanikachalam, S., Thanikachalam, M., Bell, M.L. 2017. Associations between greenness, impervious surface area, and nighttime lights on biomarkers of vascular aging in Chennai, India, *Environmental Health Perspectives*, <https://doi.org/10.1289/EHP541>.

67. Pandey, B., Zhang, Q., **Seto, K.C.** 2017. Comparative evaluation of relative calibration methods for DMSP/OLS nighttime lights, *Remote Sensing of Environment*, <https://doi.org/10.1016/j.rse.2017.04.011>.
66. Güneralp, B., Zhou, Y., Ürge-Vorsatz, D., Gupta, M., Yu, S., Patel, P., Fragkias, M., Li, X., **Seto, K.C.** 2017. Global scenarios of urban density and its impacts on building energy use through 2050, *Proceedings of the National Academy of Sciences of the United States of America*, <https://doi.org/10.1073/pnas.1606035114>.
65. Bren d'Amour, C., Reitsma, F., Baiocchi, G., Barthel, S., Güneralp, B., Erb, K-H., Haberl, H., Creutzig, F., **Seto, K.C.** 2016. Future urban expansion and implications for global croplands, *Proceedings of the National Academy of Sciences of the United States of America*, <https://doi.org/10.1073/pnas.1606036114>.
64. Stokes, E. C., **Seto, K.C.** 2016. Climate change and urban land systems: Bridging the gaps between Urbanism and Land Science, *Journal of Land Use Science*, <https://doi.org/10.1080/1747423X.2016.1241316>.
63. **Seto, K.C.**, Davis, S.J., Mitchell, R. B., Stokes, E.C., Unruh, G., Ürge-Vorsatz, D. 2016. Carbon lock-in: Types, causes, and policy implications, *Annual Review of Environment and Resources*, <https://doi.org/10.1146/annurev-environ-110615-085934>.
62. Creutzig, F., Fernandez, B., Haberl, H., Khosla, R., Mulugetta, Y., **Seto, K.C.** 2016. Beyond technology: Demand-side solutions to climate change mitigation, *Annual Review of Environment and Resources*, <https://doi.org/10.1146/annurev-environ-110615-085428>.
61. Fragkias, M., Lobo, J., **Seto, K.C.** 2016. A comparison of nighttime lights data for urban energy research: insights from scaling analysis in the U.S. system of cities, *Environment and Planning B*, <https://doi.org/10.1177/0265813516658477>.
60. Zhang, Q., Pandey, B., **Seto, K.C.** 2016. A robust method to generate a consistent time series from the DMSP/OLS nighttime light data, *Transactions in Geoscience and Remote Sensing*, <https://doi.org/10.1109/TGRS.2016.2572724>.
59. Reba, M., Reitsma, F., **Seto, K.C.** 2016. Spatializing 6,000 years of global urbanization from 3700 BC to AD 2000, *Nature Scientific Data*, <https://doi.org/10.1038/sdata.2016.34>.
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9. **Seto, K.C.** 2007. "Urbanization in China: The Pearl River Delta," in *Our Changing Planet: A View from Space*, King, M., Williams, R. G., Partington, K., eds. Cambridge University Press, pp. 186-189.
8. **Seto, K.C.**, Fragkias, M., Schneider, A. 2007. "20 years after reforms: Challenges to planning and development in China's city-regions and opportunities for remote sensing," in *Applied Remote Sensing for Urban Planning, Governance and Sustainability*, Redman, C., Stefanov, W., Netzband, M., eds. Springer-Verlag, pp. 249-271.
7. Liu, W. G., **Seto, K.C.**, Sun, Z., Tian, Y. 2006. "Urban land use prediction model with spatiotemporal data mining and GIS," in *Urban Remote Sensing*, Weng, Q., Quattrochi, D. A., eds., CRC Press/Taylor and Francis, pp. 165-178.
6. **Seto, K.C.** 2005. "Economies, societies, and landscapes in transition: Examples from the Pearl River Delta, China and the Red River Delta, Vietnam," in *Population, Land Use, Environment: Research Directions*. National Research Council Panel on New Research on Population and the Environment. Entwisle, B., Stern, P., eds., NRC Press, Washington, D. C. pp. 193-218.
5. Matson, P.A., Luers, A.L., **Seto, K.C.**, Naylor, R., Ortiz-Monasterio, I. 2005. "People, land use, and environment in the Yaqui Valley, Sonora, Mexico," in *Population, Land Use, Environment: Research Directions*. National Research Council Panel on New Research on Population and the Environment. Entwisle, B., Stern, P., eds., NRC Press, Washington, D. C. pp. 238-264.
4. **Seto, K.C.**, Woodcock, C.E., Kaufmann, R.K. 2004. "Land cover/land use change: A case study of the Pearl River Delta, China," in *Land Change Science: Observing, Monitoring, and Understanding Trajectories of Change on the Earth's Surface*, Gutman, G., Justice, C., eds., Kluwer Academic Publishers, pp. 223-246.
3. Brown, D., Walker, R., Manson, S., **Seto, K.C.** 2004. "Modeling land cover and land use change," in *Land Change Science: Observing, Monitoring, and Understanding Trajectories of Change on the Earth's Surface*, Gutman, G., Justice, C., eds., Kluwer Academic Publishers, pp. 395-409.

2. Elvidge, C.D., Sutton, P.C., Wagner, T.W., Ryznar, R., Goetz, S.J., Smith, A.J., Jantz, C., **Seto, K.C.**, Imhoff, M.L., Yang, Y.Q., Milesi, C., Nemani, R. 2004. "Urbanization," in *Land Change Science: Observing, Monitoring, and Understanding Trajectories of Change on the Earth's Surface*, Gutman, G., Justice, C., eds., Kluwer Academic Publishers, pp. 315-328.
1. **Seto, K.C.**, Kaufmann, R.K., Woodcock, C.E. 2000. "Monitoring land use change in the Pearl River Delta, China," in *Linking People, Place, and Policy: A GISc Approach*, Crews-Meyer, K., Walsh, S., eds., Kluwer Academic Publishers, pp. 69-90.

SCIENTIFIC COMMITTEE REPORTS

9. National Science Foundation, Advisory Committee for Environmental Research and Education. 2018. *Sustainable Urban Systems: Articulating a Long-Term Convergence Research Agenda*. A Report from the NSF Advisory Committee for Environmental Research and Education. Prepared by the Sustainable Urban Systems Subcommittee. Ramswami, A., Bettencourt, L., Clarens, A., Das, S., Fitzgerald, G., Irwin, E., Pataki, D., Pincetl, S., **Seto, K.**, Waddell, P.
8. National Academies of Sciences, Engineering, and Medicine. Katchi, L. P. B., Branas, C., Brown, M. A., Day, J. W., Ferrao, P., Hanson, S., Hendrickson, C. T., Moomaw, S. M., Pitre-Hayes, A., **Seto, K.C.**, Tollerson, E., Zimmerman, R. 2016. *Pathways to Urban Sustainability: Challenges and Opportunities for the United States*. Washington, DC: The National Academies Press, doi:10.17226/23551.
7. **Seto, K.C.**, Dhakal, S., Bigio, A., Blanco, H., Delgado, G. C., Dewar, D., Huang, L., Inaba, A., Kansal, A., Lwasa, S., Mueller, D. B., Murakami, J., Nagendra, H., and Ramaswami, A. 2014. "Human Settlements, Infrastructure and Spatial Planning," in *Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the IPCC Fifth Assessment Report of the Intergovernmental Panel on Climate Change*.
6. Edenhofer, O., Pichs-Madruga, R., Sokona, Y., Agrawala, S., Bashmakov, I., Blanco, G., Broome, J., Bruckner, T., Brunner, S., Bustamante, M., Clarke, L., Creutzig, F., Dhakal, S., Navroz Dubash, K., Gomez-Echeverri, L., Eickemeier, P., Farahani, E., Fishedick, M., Fleurbaey, M., Gerlagh, R., Gupta, S., Gupta, S., Harnish, J., Jiang, K., Kadner, S., Kartha, S., Klasen, S., Kolstad, C., Krey, V., Kunreuther, H., Lucon, O., Masera, O., Minx, J., Muluetta, Y., Patt, A., Ravindranath, N.H., Riahi, K., Roy, J., Schaeffer, R., Schlomer, S., **Seto, K.C.**, Seyboth, K., Sims, R., Skea, J., Smith, P., Somanathan, E., Stavins, R., von Stechow, C., Sterner, T., Sugiyama, T., Suh, S., Urama, K., Urge-Vorsatz, D., Victor, D., Zhou, D., Zou, J., Zwickel, T. 2014. *Summary for Policymakers. Contribution of Working Group III to the IPCC Fifth Assessment Report of the Intergovernmental Panel on Climate Change*.
5. Brown, D. B., Band, L. E., Green, K. O., Irwin, E. G., Jain, A., Lambin, E. F., Pontius Jr., R. G., **Seto, K.C.**, Turner II, B. L., Verburg, P. H. 2013. *Advancing Land Change Modeling: Opportunities and Research Requirements*. National Research Council Committee on Needs and Research Requirements for Land Change Modeling. The National Academies Press, Washington, D. C.
4. Elmqvist, T., Fragkias, M., Güneralp, B., Marcotullio, P., McDonald, R., Parnell, S., Sendstad, M., **Seto, K.C.**, Wilkinson, C., eds. 2013. *Global Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities*. Springer, Amsterdam.
3. Washington, W. M. (Chair), Lee, K. N., Abbott, M. R., Arent, D., Avery, S. K., Dickinson, R. E., Dietz, T., Jacoby, H. D., Lemos, M. C., Noble, I. R., Parmesan, C., **Seto, K.C.**, Tierney, K. J.,

- Vorosmarty, C. J., Wallace, J. M., Yohe, G. W. 2012. *A Review of the U.S. Global Change Research Program's Draft Strategic Plan*. The National Academies Press, Washington, D. C.
2. Murphy, A. B. (Chair), Colleton, C., Downs, R. M., Goodchild, M. F., Hansen, S., Lawson, V. A., MacDonald, G. M., Magilligan, F. J., Moseley, W. G., Polsky, C., **Seto, K.C.**, Wright, D. J. 2010. *Strategic Directions for the Geographical Sciences in the Next Decade*. The National Academies Press, Washington, D. C. The National Academies Press, Washington, D. C.
 1. DeFries, R. (Chair), Balstad, R., Colwell, R., Evans, T. P., Lam, N., Michaelsen, J., **Seto, K.C.**, Wilson, M. L. 2007. *Contributions of Land Remote Sensing for Decisions About Food Security and Human Health*. The National Academies Press, Washington, D. C.

INVITED PARTICIPANT/SPEAKER AT CONFERENCES AND WORKSHOPS

- 2022 *Urban Studies* journal Annual Lecture, Royal Geographic Society Annual Meeting, Newcastle, UK
- 2022 Annual Meeting of the Brazilian Academy of Management (EnANPAD)
- 2019 Keynote, Joint Urban Remote Sensing Event, Vannes, France
- 2019 Urbanisation in the Anthropocene - In support of a liveable planet, Royal Swedish Academy of Sciences
- 2018 NAS-China Academy of Sciences workshop on urban sustainability, Beijing, China
- 2018 Urbanization Science in China, Institute of Urban Environment, Xiamen, China
- 2018 International Forum on Urbanization and Global Environmental Change in Asia: Knowledge Gaps and Research Needs, Taipei, Taiwan
- 2018 Gordon Research Conference on Industrial Ecology: The Role of Industrial Ecology in Reaching the Sustainable Development Goals, Les Diablerets, Switzerland
- 2017 Open Imagery Network Thought Leaders' Summit, Bill and Melinda Gates Foundation, Seattle, Washington
- 2017 Scoping meeting for the IPCC Special Report on Climate Change and Desertification, Land Degradation, Food Security, Sustainable Land Management and GHG Fluxes in Terrestrial Ecosystems, Dublin, Ireland
- 2016 UN Habitat III, "Conflicts of an Urban Age," Quito, Ecuador
- 2015 Walter Orr Roberts Memorial Lecture, Aspen Global Change Institute
- 2015 American Geophysical Union Fall Meeting Union Session, "What's the big deal with the Anthropocene?" San Francisco, USA
- 2015 London School of Economics, Urban Age Global Debates, "Confronting Climate Change: Can Cities be the Solution?" London, UK
- 2015 4th Nobel Laureates Symposium on Global Sustainability, "4C: Changing Climate, Changing Cities," Hong Kong
- 2014 London School of Economics, Urban Age Conference, New Delhi, India
- 2014 NASA Workshop on Land Cover and Land Use Dynamics in South and South East Asia, ICIMOD, Kathmandu, Nepal
- 2014 The Future is Now: Urban Asia in the 21st Century, Boston University
- 2014 KOSMOS Summer University FutureLand, Humboldt University, Berlin
- 2014 Thinking Inside Out: How Cities Can Contribute to Solving Global Problems. Side Event to the United Nations' Preparatory Committee Meetings on Habitat III
- 2013 Ecological Society of America Annual Meeting, Minneapolis, MN
- 2013 Congress of the Society for Urban Ecology, Berlin, Germany
- 2012 American Geophysical Union Fall Meeting, Union Presentation, San Francisco, CA
- 2012 Can There Be a Science of Cities? Santa Fe Institute, Santa Fe, NM

- 2012 Central Arizona-Phoenix Long Term Ecological Research (CAP-LTER) 14th Annual All Scientists Meeting, Scottsdale, Arizona
- 2011 Workshop on Planetary Stewardship, International Geosphere-Biosphere Programme (IGBP), Stockholm, Sweden
- 2011 NOW Urbanism: City-Making in the 21st Century and Beyond, University of Washington, Seattle, Washington
- 2011 Ernst Strüngmann Forum on Linkages of Sustainability, Frankfurt, Germany
- 2011 Industrial Transformation, Urbanization, and Human Security in the Asia Pacific, Taiwan International Human Dimensions Programme (IHDP) National Committee, Taipei, Taiwan
- 2010 Open Science Meeting of the IHDP Urbanization and Global Environmental Change Project and IHDP/IGBP Global Land Project. Arizona State University, Tempe, Arizona
- 2009 Scoping meeting for the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report, Venice, Italy
- 2009 Workshop on Climate Change Impacts and Integrated Assessment, Energy Modeling Forum, Snowmass, Colorado
- 2009 World Social Science Forum, International Social Science Council, Bergen, Norway
- 2009 Cities at Risk Conference, System for Analysis, Research, and Training (START), Bangkok, Thailand
- 2008 Shanghai Forum, Shanghai, China
- 2007 Global Urban Summit, Rockefeller Foundation, Bellagio, Italy
- 2007 Sustainable Urban Futures Workshop, United Nations, New York, New York
- 2006 Land Use and Land Cover Harmonization Workshop, United Nations Food and Agriculture Organization, Rome, Italy
- 2006 Imaging Environment: Maps, Models, and Metaphors. Stanford Humanities Center, Stanford, California
- 2004 Workshop on Research on Population, Land Use, and Environment, National Research Council, Irvine, CA
- 2004 Workshop on Rapid Assessment of Global Environmental Change in East Asia, System for Analysis, Research, and Training (START) and Scientific Committee on Problems of the Environment (SCOPE), Hangzhou, China
- 2004 Urbanization and Global Environmental Change in Latin America, Inter-America Institute, Mexico City, Mexico
- 2004 International Conference on Science and Technology for Sustainability: Asian Megacities and Global Sustainability, Science Council of Japan, Tokyo, Japan
- 2003 Roundtable on Science and Technology for Sustainability. National Academy of Sciences, Rapid Urbanization Working Group. Washington, D. C.
- 2003 NASA Northern Eurasian Earth Science Partnership Initiative Science Plan Workshop, Suzdal, Russia
- 2001 Second Technical Design Meeting. Millennium Ecosystem Assessment, Cape Town, South Africa

INVITED SPEAKER AT ACADEMIC INSTITUTIONS

- 2022 UCLA Luskin School of Public Affairs, Perloff Lecture
- 2022 Arizona State University, Anthony J. Brazel Urban Climate Lecture
- 2022 Stanford University, AI for Architecture, Engineering and Construction
- 2018 McGill University, Trottier Symposium: Planning for Resiliency in the Face of Climate Change
- 2018 Belmont University, Annual Environmental Science Lecture
- 2018 Iowa State, Department of Geological and Atmospheric Sciences
- 2018 Indian Institute for Human Settlements, Bangalore, India
- 2017 The Ohio State University, Arthur H. Robinson Lecture

- 2017 MIT, Department of Urban Studies and Planning
 2017 University of British Columbia
 2017 Macalester College, Lanegran Day Lecture
 2016 University of Washington, Stice Lecture
 2015 University of Massachusetts Boston, Dimensions of Sustainability Symposium
 2015 National Cheng Kung University, Taiwan
 2014 University of Pennsylvania, School of Design
 2014 South Dakota State University, Virginia & John Holtry Distinguished Lecture
 2014 South Dakota State University, Geospatial Sciences Center of Excellence
 2013 University of Miami, Department of Geography and Regional Studies
 2013 University of Tennessee, Knoxville, Baker Center Interdisciplinary Forum on Environmental Policy
 2012 Duke University, Nicholas School of the Environment
 2012 Yale University, School of Management Guangdong Provincial Government Leadership Program
 2011 Clark University, Graduate School of Geography Wallace W. Atwood Lecture
 2011 Copenhagen University, Department of Geography
 2010 National University of Singapore
 2010 Macalester College
 2010 Institute for Geographical Sciences and Natural Resources Research, China Academy of Sciences, China
 2010 Yale-Tsinghua Environment and Sustainable Development Leadership Program, Yale University
 2009 University of Connecticut, Environmental Engineering Seminar Series
 2008 Stanford University, Woods Institute for the Environment
 2007 Tsinghua University, Shenzhen, China
 2007 Stanford University, School of Earth Sciences Public Lecture Series
 2007 Stanford University, Department of Anthropology
 2007 UC Berkeley, Energy Resources Group
 2007 Stanford University, Vice Provost for Undergraduate Education Program
 2006 Stanford University, Knight Professional Journalism Program
 2005 Indiana University, The Center for the Study of Institutions, Population, and Environmental Change (CIPEC)
 2004 Bryn Mawr College, Geology Department
 2003 UC Berkeley, Energy Resources Group
 2003 Stanford University, Archaeometry Seminar
 2002 Stanford University, Department of Geological and Environmental Studies
 2001 Stanford University, Department of Electrical Engineering
 2001 UC Berkeley, Center for the Assessment and Monitoring of Forest and Environmental Resources
 2000 Stanford University, Asia/Pacific Research Center
 1999 University of Rhode Island, Department of Natural Resources

INVITED SPEAKER AT ORGANIZATIONS

- 2022 USAID Green Cities Division
 2018 Sonae Global Advisory Group, Lisbon, Portugal
 2018 Carlsberg Foundation, “What we know - What we can” public lecture, Copenhagen, Denmark
 2016 World Resources Institute, Ross Center for Sustainable Cities
 2016 World Bank, Pollution Management and Competitive Cities Workshop
 2014 Global Environment Facility, Washington, D. C
 2011 Danish Meteorological Institute, Copenhagen, Denmark
 2009 Wood Creek Capital Management, Great Mountain Forest, CT
 2009 Lingnan Foundation, New York, NY

- 2008 Rotary Club, Livermore, CA
2008 Stanford University Alumni Association, Atlanta, GA
2007 Stanford Graduate School of Business Executive Program, Business Strategies for Environmental Sustainability, Stanford Sierra Camp, CA
2006 KQED Public Radio Lecture Series, San Francisco, CA
2006 Commonwealth Club of California, San Francisco, CA
2005 International Human Dimensions Programme, China National Committee, Beijing, China

FUNDED GRANTS

- 2023-2026 NASA
Decoding Land Transitions Across the Urban-Rural Continuums (URC): A Synthesis Study of Patterns, Drivers, and Socio-Environmental Impacts in Southeast Asia
PI: P. Fan, Michigan State University
\$1.7M
Yale: \$101K
- 2022-2024 NASA
Earth observations to reduce greenspace and health inequities: Applying multi-decadal and multi-scale satellite imagery to characterize tree canopy and heat exposure to improve policymaking and community well-being
PI: **K.C. Seto**
\$249,999
- 2018-2019 Resources for the Future
Molly K. Macauley Award for Research Innovation and Advanced Analytics for Policy
The value of measuring and mapping montane urbanization
PI: E. Fenichel, Yale
\$99,946
- 2018-2019 The National Socio-Environmental Synthesis Center (SESYNC)
Linkages of Agrobiodiversity in Urban Systems and Food-Producing Landscapes
PI: K. Zimmerer (Penn State)
~\$92,000 (funds internally managed at SESYNC)
- 2018-2021 NSF/Belmont Forum
Understanding Innovative Initiatives for Governing Food, Water and Energy Nexus in Cities
PI: J. Puppim de Oliveira (FGV/EAESP, Brazil)
\$1,218,942 EUR (~\$1,513,316 USD); \$366,626 (Seto/Yale)
- 2018-2019 NASA
Development of VIIRS Algorithms and NASA Black Marble Product Suite
PI: **K.C. Seto**
\$129,620
- 2018-2020 NASA
NASA'S Black Marble Product Suite: Algorithm Refinement and Validation Efforts
PI: **K.C. Seto**
\$200,373

- 2018 Alfred P. Sloan Foundation
City Unseen: New Visions of an Urban Planet
PI: **K.C. Seto**
\$30,250
- 2017-2020 NASA Land-Cover and Land-Use Change Program
Urban Growth, Land-Use Change, and Growing Vulnerability in the Greater Himalaya
Mountain Range Across India, Nepal, and Bhutan
PI: **K.C. Seto**
\$749,815
- 2016-2017 Yale MacMillan Center
The Spatial Structure of Cities: A Comparative Global Study
PI: **K.C. Seto**
\$8,000
- 2015-2018 NASA Land-Cover and Land-Use Change Program
Synthesis of LCLUC Studies on Urbanization: State of the Art, Gaps in Knowledge, and New
Directions in Remote Sensing Science
PI: **K.C. Seto**
\$779,991
- 2014-2017 NASA Land-Cover and Land-Use Change Program
Land Cover and Land Use Changes and Their Effects on Carbon Dynamics in South and
Southeast Asia: A Synthesis Study
PI: Atul Jain (U of Illinois, Urbana-Champaign)
~\$700,000
- 2013-2016 NASA Interdisciplinary Research in Earth System Science Program
Understanding Impacts of Desert Urbanization on Climate and Surrounding Environments to
Foster Sustainable Cities Using Remote Sensing and Numerical Modeling
PI: S. Myint (Arizona State)
\$765,990
- 2011-2015 NASA Land-Cover and Land-Use Change Program
Multi-Scale and Multi-Sensor Analysis of Urban Cluster Development and Agricultural Land
Loss in China and India
PI: **K.C. Seto**
\$1,290,116
- 2012-2013 Yale MacMillan Center
Comparing drivers of urban land-use change in India and China: The role of planning
institutions and planning professionals
PI: **K.C. Seto**
\$15,000
- 2011-2014 Ernst Strungmann Forum, Frankfurt, Germany
Rethinking Global Land Use in an Urban Era
PI: **K. Seto**
~\$250,000 (funds managed internally at Ernst Strungmann Forum)

- 2011-2013 NASA Carbon Cycle Science Program
United States Stream Evasion and CO₂ Evasion
PI: P. A. Raymond (Yale)
\$507,981
- 2010-2011 NASA Land-Cover and Land-Use Change Program
Workshop on Forecasting Urban Land-Use Change: An Earth System Science Perspective
PI: M. Fragkias (Arizona State)
\$40,000
- 2009-2011 Yale Climate and Energy Institute
Global Warming Impacts on CT Salt Marsh Ecosystems and Consequent Effects on Salt
Marsh Vulnerability to Sea Level Rise
PI: M. D. Smith (Yale)
\$99,000
- 2009-2011 Yale Climate and Energy Institute
Land Surface Properties, Regional Climate Feedbacks and Urban Adaptations
PI: R. B. Smith (Yale)
\$100,000
- 2009-2011 NSF Urban Long-Term Research Area (ULTRA) Exploratory Program
Human-Nature Interactions in an Urbanized Island Setting: Hilo and Kailua-Kona, Hawai'i as
Model Socio-Ecological Systems
PI: M. Chertow (Yale)
\$145,346
- 2009-2010 Connecticut Space Grant College Consortium
Remote Sensing of Land-Cover and Land-Use Change
PI: **K.C. Seto**
\$7,452
- 2008-2011 NASA Land Cover and Land Use Change Program
Monitoring and Modeling Urbanization in China: A Mixed Methods and Multi-Scale
Approach
PI: A. Schneider (Wisconsin)
\$621,651
- 2007-2008 Qatar Ministry of Commerce
GIS/4D Models and Analysis of the Development of Doha and Qatar Free Zone Areas
PI: M. Fischer (Stanford)
\$395,000
- 2006-2008 Stanford Environmental Interdisciplinary Initiatives Program
From Bangalore to the Bay Area: Comparative Urban Growth Patterns Across the Pacific
Rim
PI: **K.C. Seto**
\$150,000
- 2005-2006 The UPS Foundation

- Urban Decentralization Dynamics and the Effects of Transportation Network Expansion in a System of Cities in Southeast China
PI: **K.C. Seto**
\$30,000
- 2004-2006 Stanford Environmental Interdisciplinary Initiatives Program
Mitigating Future Arsenic Catastrophes Within Asia: An Integrative Study of Processes Controlling Arsenic Release Induced by Land Use
PI: S. Fendorf (Stanford)
\$148,000
- 2004-2005 National Geographic Society
Coupled Human-Environment Interactions in Vietnam: Urbanization and Coastal Transformation
PI: **K.C. Seto**
\$23,000
- 2004-2009 NSF Faculty Early Career Development (CAREER) Award
Urban land-use change in Asia
PI: **K.C. Seto**
\$430,000
- 2003-2004 NASA and Institute for Advanced Education in Geospatial Sciences, University of Mississippi
Model Curriculum for Remote Sensing: Ecosystems Modeling Applications
PI: E. Fleishman
\$80,000
- 2002-2003 NASA and Center for GeoSpatial Workforce Development, University of Mississippi
Model Curriculum for Remote Sensing: Remote Sensing of the Environment
PI: **K.C. Seto**
\$80,000
- 2001-2005 NASA New Investigator Program (Early Career) Award
Monitoring and Modeling Land-Use Change: Integrating Remote Sensing with Socioeconomic Drivers
PI: **K.C. Seto**
\$316,000
- 1997-2000 NASA Land-Cover and Land-Use Change Program
Modeling and Forecasting Effects of Land-Use Change in China Based on Socioeconomic Drivers
PI: R. K. Kaufmann
\$320,000

JOURNAL ACTIVITIES

EDITORSHIP OR EDITORIAL/ADVISORY BOARD

- 2021– Editorial Board, *Proceedings of the National Academy of Sciences of the United States of America*

- 2019– Editorial Board, *npj Urban Sustainability*
 2014–2020 Co- Editor-in-Chief, *Global Environmental Change*
 2018– Editorial Advisory Panel, *Nature Sustainability*
 2018– Editorial Board, *Earth System Governance*
 2016– Associate Editor, *Frontiers in Built Environment*, Urban Science Specialty Section
 2015– Editorial Board, *Climatic Change*
 2015– Editorial Board, *World Development*
 2012– Editorial Board, *Urban Climate*
 2012–2019 Advisory Board, *New Directions in Sustainability and Society*, Cambridge University Press book series
 2009– Editorial Board, *Current Opinion in Environmental Sustainability*

JOURNAL REVIEWER

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| <i>Agriculture, Ecosystems & Environment</i> | <i>Journal of Arid Environments</i> |
| <i>Annual Review of Environment and Resources</i> | <i>Journal of Environmental Management</i> |
| <i>Applied Geography</i> | <i>Journal of Geophysical Research, Atmospheres</i> |
| <i>Climatic Change</i> | <i>Journal of Land Use Science</i> |
| <i>Climate Policy</i> | <i>Land Use Policy</i> |
| <i>Computers, Environment and Urban Systems</i> | <i>Landscape and Urban Planning</i> |
| <i>Conservation Biology</i> | <i>Nature</i> |
| <i>Ecological Economics</i> | <i>Nature Sustainability</i> |
| <i>Ecological Restoration</i> | <i>Nature Climate Change</i> |
| <i>Ecology and Society</i> | <i>Photogrammetric Engineering and Remote Sensing</i> |
| <i>Environmental Management</i> | <i>Population-Environment Review</i> |
| <i>Environmental Science & Technology</i> | <i>Proceedings of the National Academy of Sciences of the United States of America</i> |
| <i>Frontiers in Ecology and the Environment</i> | <i>Remote Sensing of Coastal Environments</i> |
| <i>Global Change Biology</i> | <i>Remote Sensing of Environment</i> |
| <i>Global Energy Assessment</i> | <i>Science</i> |
| <i>Global Environmental Change</i> | |
| <i>Global and Planetary Change</i> | |
| <i>International Journal of Remote Sensing</i> | |
| <i>International Journal of Geographical Information Science</i> | |

PROPOSAL REVIEWER

- Belgian Federal Science Policy Office, Research Programme for Earth Observation
 Bundesministerium für Bildung und Forschung (German Federal Ministry of Education and Research)
 Program on Sustainable Development of the Megacities
 Dissertations Initiative for the Advancement of Climate Change Research
 Inter-American Institute for Global Change Research
 International Foundation for Science
 NASA Carbon Cycle and Ecosystems Program
 NASA Earth System Science Fellowship
 NASA Land Cover/Land Use Change Program
 NASA New Investigator Program
 NSF Faculty Early Career Development (CAREER) Program
 NSF East Asia and Pacific Program
 NSF Geology and Paleontology
 NSF Geomorphology and Land Use Dynamics

NSF Geography and Regional Science/Geography and Spatial Sciences
 NSF Graduate Research Fellowship Program
 NSF Hydrological Sciences Program
 NSF International Research Fellows Program
 NSF Integrative Graduate Education and Research Traineeship (IGERT)
 NSF International Planning Visits and Workshops Program
 Sloan Foundation

YALE UNIVERSITY SERVICE

2022– Yale Alumni Magazine Advisory Board
 2017–’19 University-Wide Data-Intensive Social Science Committee
 2017–’18 Climate Solutions Panelist for University Science Strategy Committee
 2016–’17 Silliman Lectureship Committee
 2016–’17 Ad Hoc Committee on Procedures for Resolving Complaints of Faculty Misconduct
 2016–’18 Yale Center for Research Computing Steering Committee
 2015–’16 Chair, Yale School of Forestry and Environmental Dean Search Committee
 2013–’16 Yale Climate and Energy Institute Steering Committee
 2013–’15 Advisory Committee on Library Policy
 2012–’15 President's Committee on Racial and Ethnic Harassment
 2012– Silliman College Fellow
 2012–’15 Freshman Advisor
 2011–’12 Yale School of Forestry and Environmental Studies, Masters Admissions Committee
 2009– Environmental Studies Faculty Advisory Committee
 2008–’09 Yale School of Forestry and Environmental Studies, Doctoral Admissions Committee

YALE UNIVERSITY TEACHING

YALE COLLEGE

From Dongguan to Delhi: China and India’s Urbanization and the Environment (S2013)
 Urbanization, Food Systems, and the Environment (F2013)

YALE SCHOOL OF THE ENVIRONMENT | SCHOOL OF FORESTRY AND ENVIRONMENTAL STUDIES

Contemporary Issues and Research Methods in the Urban Environment (S2018)
 Urban Indicators, Metrics, and Spatial Analysis Practicum (S2017)
 Doctoral seminar (F2014; F2015; F2016; F2017; F2018)
 Climate Change Mitigation in Urban Areas (F2012; S2014; F2015; F2019; F2020)
 Linkages of Sustainability (F2009; S2012; S2013)
 Remote Sensing of Land-Use and Land-Cover Change (F2009; F2011; S2014)
 Urbanization, Global Change, and Sustainability (S2009; F2019; F2020; F2021; F2022)

WORKSHOP AND CONFERENCE ORGANIZATION

2019 Chair, US National Academy of Science–Chinese Academy of Sciences Workshop on
 “Advancing Urban Sustainability in China and the United States,” Washington, D.C.
 2016 Co-Chair, “Urban Transitions Global Summit,” international conference, Shanghai, China
 2014 Co-Chair, Urbanization and Global Environmental Change Regional Workshop on
 “Urbanization and Environmental Change in China,” Beijing, China

- 2014 Co-Chair, International Science and Planning Committee, “Second International Conference on Urbanization and Global Environmental Change,” Taipei, Taiwan
- 2014 Co-Organizer, IARU Sustainability Science Congress, “Sustainable Urbanization,” Copenhagen, Denmark
- 2012 Co-Chair, Ernst Strungmann Forum on “Rethinking Global Land Use in an Urban Era,” Frankfurt, Germany
- 2011 Co-Organizer, “Urban Responses to Climate Change in Asia: Understanding Mitigation and Adaptation Strategies,” Taipei, Taiwan
- 2011 Co-Organizer, “Sustainable Land Use in an Urbanizing World,” IHDP Urbanization and Global Environmental Change Project and Global Land Project joint workshop, Copenhagen, Denmark
- 2011 Co-Organizer, “Forecasting Urban Land-Use Change,” NASA-sponsored workshop, Arizona State University
- 2010 Co-Chair, International Science and Planning Committee, International Conference on Urbanization and Global Environmental Change, Arizona State University
- 2010 International Science and Planning Committee, IHDP Taiwan Conference, Taipei, Taiwan
- 2008 Organizer and Convener, “Workshop on Satellite Remote Sensing for Mangrove Monitoring,” IUCN World Conservation Congress, Barcelona, Spain
- 2004 Co-Organizer, “Climate Change Resilience in an Urbanizing Western Africa,” Science-Policy Workshop, Dakar, Senegal
- 2004 Organizer, “Urbanization and Global Environmental Change” panel session, 2004 AAG meeting
- 2004 Co-Organizer, “Remote Sensing for Ecosystem Management,” IUCN World Conservation Congress, Bangkok, Thailand

OUTREACH

Executive Producer, “Ten Thousand Shovels: Rapid Urban Growth in China,” short documentary film, 2005

PROFESSIONAL AFFILIATIONS

American Association for the Advancement of Science
American Association of Geographers
American Geophysical Union
American Society for Photogrammetry and Remote Sensing