# CONSTANTINE E. KONTOKOSTA, PhD New York University <u>ckontokosta@nyu.edu</u>

# FACULTY AND ACADEMIC LEADERSHIP POSITIONS (since PhD)

### **New York University**

2019-	Associate Professor of Urban Science and Planning, Marron Institute of Urban	
	Management	
2019-	Director, Civic Analytics Program, Marron Institute of Urban Management	
2019-	Associated (Core) Faculty, Center for Urban Science and Progress (cross-appointment)	
2019-	Associated Faculty, Department of Civil and Urban Engineering (cross-appointment)	
2016-	Director, Urban Intelligence Lab	
2014-2020	Head/Principal Investigator, Quantified Community	
2014-2018	Assistant Professor of Urban Informatics (joint position), Department of Civil and Urban	
	Engineering, Tandon School of Engineering and Center for Urban Science and Progress	
2013-2014	Research Associate Professor, Department of Civil and Urban Engineering, NYU Tandon	
	School of Engineering	
2012-2018	Deputy Director/Academic Director, Center for Urban Science and Progress (member of	
	the Founding Leadership Team, launched April 2012)	
2012-2014	Adjunct Associate Professor of Urban Planning, Wagner School of Public Service, New	
	York University	
2011-2014	Founding Director, Center for the Sustainable Built Environment, Schack Institute of Real	
	Estate	
2011-2012	Clinical Associate Professor, Schack Institute of Real Estate	
Affiliated & Visiting Faculty and Research Positions		

# 2017- Affiliated Faculty, NYU Wagner School of Public Service

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2018-2019	Senior Scholar.	New York A	Academy of Medicine	

2018-2019Senior Scholar, New York Academy of Medicine2016-2019Visiting Professor, Department of Computer Science, University of Warwick

# **EDUCATION**

2011	PhD	Columbia University, Urban Planning (Minor: Econometrics)
2007	MPhil	Columbia University, Urban Planning
2005	MS	Columbia University, Urban Planning (Urban Analytics)
2003	MS	New York University, Real Estate
1998	BSE	University of Pennsylvania, Systems Science and Engineering

### ACADEMIC HONORS AND FELLOWSHIPS

<b>Best Paper Award</b> – Pathway to Impact, <i>International Conference on Learning Representations, Machine Learning for Climate Change Workshop</i> (w/ B. Bonczak and B.
Hong)
Article of the Year Award, Journal of the American Planning Association (w/ V. Reina and B. Bonczak)
Fellow, Urban Design Forum
National Science Foundation (NSF) CAREER Award
Goddard Junior Faculty Fellowship, New York University
Azure for Research Award, Microsoft Research

2017	<b>Best Project Award</b> – Data Visualization, United Nations Data for Climate Action Challenge
2017	Waze Research Pilot Program Award, Google (full access to global Waze data)
2016	IoT Research Award, Google
2015-2016	Faculty Engineer-in-Residence, NYU Future Labs Incubators
2015	<b>Best Paper Award</b> , <i>Bloomberg Data for Good Symposium</i> , "Web-Based Visualization and Prediction of Urban Energy Use from Building Benchmarking Data" (w/ C. Tull)
2015	Real Green Research Challenge Award, CBRE, Inc.
2014	IBM Faculty Award
2013	Finalist, Grand Challenge Research Award, NYU
2012	Alumni Recognition for Achievements in Science, Riverdale Country School, Bronx,
	NY
2012	Fellow, Royal Institution of Chartered Surveyors
2012	Teaching Excellence Award, New York University (SPS)
2010	Outstanding Service Award, New York University (SPS)
2010, 2012	Climate, Buildings, and Behavior Scholarship, Garrison Institute
2009-2014	Fulbright Senior Specialist in Urban Planning, J. William Fulbright Foreign Scholarship
	Board/CEIS
2009-2010	C. Lowell Harriss Dissertation Fellowship, Lincoln Institute of Land Policy
2009-2010	<b>Dissertation Research Grant</b> , Graduate School of Arts and Sciences, Columbia University
2008-2010	<b>Doctoral Dissertation Research Grant</b> , U.S. Department of Housing and Urban Development (HUD)
2007-2009	Housing and Community Development Research Fellow, Citizens Housing and Planning Council
2007	<b>Graduate Student Scholarship</b> , American Society of Civil Engineers / Engineers without Borders USA
2006	New Scholar Workshop Invited Participant, Journal of Planning Education and Research
2005-2010	University Fellowship (5-year award), Graduate School of Arts and Sciences, Columbia
2005	University (full tuition and stipend for five years)
2005	<b>Charles Abrams Award for Social Justice Research Thesis</b> , Graduate School of Architecture, Planning, and Preservation, Columbia University
2001-2003	Dean's Fellowship (multi-year, merit-based award), New York University

# PUBLICATIONS

(<u>underline</u> denotes supervised student and *italics* denotes supervised research scientist/postdoc; corresponding author in **bold**)

### Books

1. Kontokosta, Constantine E. Zero One: Civic Analytics for Sustainable and Just Cities, Island Press. In Contract.

# **Peer-reviewed Journal Articles**

- 2. Kontokosta, Constantine E., *Boyeong Hong*, and <u>Bartosz Bonczak</u>. 2024. "Neighborhood Density and the Inequality of COVID-19 Transmission" *Nature Cities*
- 3. Kontokosta, Constantine E., *Boyeong Hong*, and <u>Bartosz Bonczak</u>. 2022. "Measuring sensitivity to social distancing behavior during the COVID-19 pandemic," *Scientific Reports*, *12*(1), 1-15.
- 4. Gupta, Arpit, Stijn Van Nieuwerburgh, and **Constantine E. Kontokosta**. 2022. "Take the Q train: Value capture of public infrastructure projects," *Journal of Urban Economics*, *103422*. (IF = 3.637) doi.org/10.1016/j.jue.2021.103422

- 5. <u>Lai, Yuan, Sokratis Papadopoulos</u>, Franz Fuerst, Gary Pivo, Jacob Sagi, and **Constantine E. Kontokosta**. 2022. "Building Retrofit Hurdle Rates and Risk Aversion in Energy Efficiency Investments," *Applied Energy*, 118048. (IF = 9.746) <u>doi.org/10.1016/j.apenergy.2021.118048</u>
- 6. **Kontokosta, Constantine E.** 2021. "Urban Informatics in the Science and Practice of Planning," *Journal of Planning Education and Research*, 41(4), 382-395. (IF = 7.217) doi.org/10.1177/0739456X18793716
- Hong, Boyeong, Bartosz Bonczak, Arpit Gupta, Lorna E. Thorpe, and Constantine E. Kontokosta. 2021. "Exposure density and neighborhood disparities in COVID-19 infection risk," *Proceedings of* the National Academy of Sciences, 118(13). (IF =11.204) doi.org/10.1073/pnas.2021258118
- 8. *Hong, Boyeong, Bartosz Bonczak*, Arpit Gupta, **Constantine E. Kontokosta.** 2021. "Measuring inequality in community resilience to natural disasters using large-scale mobility data," *Nature Communications*, *12*(1), 1-9. (IF = 14.919) <u>https://doi.org/10.1038/s41467-021-22160-w</u>
- 9. Kontokosta, Constantine E., Lance Freeman, and <u>Yuan Lai</u>. "Up-and-Coming or Down-and-Out? Social Media Popularity as an Indicator of Neighborhood Change." *Journal of Planning Education and Research* (2021): 0739456X21998445. (IF = 7.217) <u>doi.org/10.1177/0739456X21998445</u>
- Kontokosta, Constantine E. and *Boyeong Hong*. 2021. "Bias in Smart City Governance: How Socio-Spatial Disparities in 311 Complaint Behavior Impact the Fairness of Data-Driven Decisions," *Sustainable Cities and Society*, 64, 102503. (IF = 7.587) doi.org/10.1016/j.scs.2020.102503
- Kontokosta, Constantine E., Danielle Spiegel-Feld, and <u>Sokratis Papadopoulos</u>. 2020. "The Impact of Mandatory Energy Audits on Building Energy Use," *Nature Energy*, 5: 309-316. (IF = 60.858) <u>doi.org/10.1038/s41560-020-0589-6</u>
- Kontokosta, Constantine E., Vincent J. Reina, and *Bartosz Bonczak*. 2020. "Energy Cost Burdens for Low-Income and Minority Households: Evidence from Energy Benchmarking and Audit Data in Five US Cities," *Journal of the American Planning Association*, 86: 89-105. (IF = 2.830) doi.org/10.1080/01944363.2019.1647446 (Article of the Year Award)
- <u>Lai, Yuan</u> and Constantine E. Kontokosta. 2019. "Topic Modeling to Discover the Thematic Structure and Spatial-temporal Patterns of Building Renovation and Adaptive Reuse in Cities," *Computers, Environment, and Urban Systems*, 78, 101383. (IF = 5.324) doi.org/10.1016/j.compenvurbsys.2019.101383
- 14. <u>Papadopoulos, Sokratis,</u> **Constantine E. Kontokosta**, Alex Vlachokostas, and Elie Azar. 2019. "Rethinking HVAC temperature setpoints in commercial buildings: The potential for zero-cost energy savings and comfort improvement in different climates," *Building and Environment*, 155: 350-359. (IF = 6.456) <u>doi.org/10.1016/j.buildenv.2019.03.062</u>
- 15. <u>Lai, Yuan</u> and Constantine E. Kontokosta, 2019. "The Impact of Urban Street Tree Species on Air Quality and Respiratory Illness: A Spatial Analysis of Large-Scale, High Resolution Urban Data," *Health & Place*, 56: 80-87. (IF = 4.078) <u>doi.org/10.1016/j.healthplace.2019.01.016</u>
- 16. <u>Papadopoulos, Sokratis</u> and Constantine E. Kontokosta. 2019. "Grading Buildings on Energy Performance: Leveraging City Benchmarking Data and Statistical Learning to Overcome Uncertainty," *Applied Energy*, 233: 244-253. (IF = 9.746) <u>doi.org/10.1016/j.apenergy.2018.10.053</u>
- 17. Bonczak, Bartosz and Constantine E. Kontokosta. 2019. "Large-scale Parameterization of 3D Building Morphology in Complex Urban Landscapes Using Aerial LiDAR and City Administrative Data," Computers, Environment, and Urban Systems, 73: 126-142. (IF = 5.324) doi.org/10.1016/j.compenvurbsys.2018.09.004
- Lai, Yuan and Constantine E. Kontokosta. 2018. "Quantifying Place: Analyzing the Drivers of Pedestrian Activity at High Spatial Resolution," *Landscape and Urban Planning*, 180: 166-178. (IF = 6.142) doi.org/10.1016/j.landurbplan.2018.08.018
- Traunmueller, Martin, Nicholas Johnson, Awais Malik, and Constantine E. Kontokosta. 2018. "Digital Footprints: Using WiFi Probe and Locational Data to Analyze Human Mobility Trajectories in Cities," Computers, Environment, and Urban Systems, 72: 4-12. (IF = 5.324) doi.org/10.1016/j.compenvurbsys.2018.07.006

- 20. Johnson, Nicholas, Bartosz Bonczak, and Constantine E. Kontokosta. 2018. "Using a gradient boosting model to improve the performance of low-cost aerosol monitors in a dense, heterogeneous urban environment," *Atmospheric Environment*, 184: 9-16. (IF = 4.798) doi.org/10.1016/j.atmosenv.2018.04.019
- <u>Papadopoulos, Sokratis, Bartosz Bonczak</u>, and Constantine E. Kontokosta. 2018. "Pattern Recognition in Building Performance over Time Using Energy Benchmarking Panel Data," *Applied Energy*, 221: 576-586. (IF = 9.746) <u>doi.org/10.1016/j.apenergy.2018.03.079</u>
- 22. Kontokosta, Constantine E., Boyeong Hong, Nicholas Johnson, and Daniel Starobin. 2018. "Using Machine Learning and Small Area Estimation to Predict Building-Level Municipal Solid Waste Generation in Cities," *Computers. Environment, and Urban Systems*, 70: 151-162. (IF = 5.324) doi.org/10.1016/j.compenvurbsys.2018.03.004
- Falcocchio, Giancarlo, <u>Awaik Malik</u>, and Constantine E. Kontokosta. 2018. "A Data-Driven Methodology for Equitable Value-Capture Financing of Public Transit Operations and Maintenance," *Transport Policy*, 66: 107-115. (IF = 4.674) <u>doi.org/10.1016/j.tranpol.2018.02.005</u>
- 24. <u>Hong, Boyeong, Awais Malik, Jack Lundquist</u>, Ira Bellach, and Constantine E. Kontokosta. 2018. "Applications of Machine Learning Methods to Predict Re-admission and Length-of-Stay for Homeless Families: The Case of WIN Shelters in New York City," *Journal of Technology in Human Services*, 36: 89-104. (*invited, peer-reviewed special issue*) doi.org/10.1080/15228835.2017.1418703
- Kontokosta, Constantine E. and <u>Awais Malik</u>. 2018. "The REDI Score: Applying Big Data to the Quantification and Validation of Neighborhood Resilience Capacity," *Sustainable Cities and Society*, 36: 272-285. (IF = 7.587) <u>doi.org/10.1016/j.scs.2017.10.025</u>
- 26. Wang, Lingjing, Cheng Qian, Constantine E. Kontokosta, and Stanislav Sobolevsky. 2017. "Structure of 311 Requests as a Signature of Urban Location," *PLOS ONE*, 12(10): e0186314. (IF =3.240) <u>doi.org/10.1371/journal.pone.0186314</u>
- 27. <u>Papadopoulos, Sokratis</u>, Elie Azar, Wei-Lee Woon, and Constantine E. Kontokosta. 2017. "Evaluation of tree-based ensemble learning algorithms for building energy performance estimation," *Journal of Building Performance Simulation*, 11: 322-332. (IF = 2.957) <u>doi.org/10.1080/19401493.2017.1354919</u>
- 28. Kontokosta, Constantine E. and <u>Christopher Tull</u>. 2017. "A Data-Driven Predictive Model of City-Scale Energy Use in Buildings," *Applied Energy*, 197: 303-317. (IF = 9.746) <u>doi.org/10.1016/j.apenergy.2017.04.005</u>
- 29. Reina, Vincent and **Constantine E. Kontokosta**. 2017. "Low hanging fruit? Regulations and energy efficiency in subsidized multifamily housing," *Energy Policy*, 106: 505-513. (IF = 6.142) doi.org/10.1016/j.enpol.2017.04.002
- 30. Kontokosta, Constantine E. and <u>Nicholas Johnson</u>. 2017. "Urban Phenology: Toward a Real-Time Census of the City using WiFi Data," *Computers, Environment, and Urban Systems*, 64: 14-153. (IF = 5.324) <u>doi.org/10.1016/j.compenvurbsys.2017.01.011</u>
- 31. Kontokosta, Constantine E. 2016. "Modeling the Energy Retrofit Decision in Commercial Office Buildings," *Energy and Buildings*, 131: 1-20. (IF = 5.879) <u>doi.org/10.1016/j.enbuild.2016.08.062</u>
- 32. *Marasco, Daniel* and **Constantine E. Kontokosta**. 2016. "Applications of machine learning methods for identifying building energy conservation measure opportunities in New York City," *Energy and Buildings*, 128: 431-441. (IF = 5.879) <u>doi.org/10.1016/j.enbuild.2016.06.092</u>
- Kontokosta, Constantine E. 2016. "The Quantified Community and Neighborhood Labs: A Framework for Computational Urban Science and Civic Technology Innovation," *Journal of Urban Technology*, 23: 67-84. (IF = 5.465) doi.org/10.1080/10630732.2016.1177260
- 34. Kontokosta, Constantine E. and *Rishee Jain*. 2015. "Modeling the Determinants of Large-Scale Building Water Use: Implications for Data-Driven Urban Sustainability Policy," *Sustainable Cities and Society*, 18: 44-55. (IF = 7.587) <u>doi.org/10.1016/j.scs.2015.05.007</u>

- 35. **Kontokosta, Constantine E.** 2015. "Do Inclusionary Zoning Policies Disperse Affordable Housing? A Comparative Spatial Analysis," *Journal of Housing and the Built Environment*, 30: 569-590. (IF = 2.414) <u>doi.org/10.1007/s10901-014-9430-5</u>
- 36. **Kontokosta, Constantine E.** 2015. "A Market-Specific Methodology for a Commercial Building Energy Performance Index," *Journal of Real Estate Finance and Economics*, 51: 288-316. (IF = 1.479) <u>doi.org/10.1007/s11146-014-9481-0</u>
- 37. *Jain, Rishee*, Jose Moura, and **Constantine E. Kontokosta**. 2014. "Big Data and Big Cities: Graph Signals of Urban Air Pollution," *IEEE Signal Processing Magazine*, 31: 130-136. (IF = 12.551) 10.1109/MSP.2014.2330357
- Fuerst, Franz, Constantine E. Kontokosta, and Patrick M. McAllister. 2014. "Determinants of Green Building Adoption," *Environment and Planning B: Urban Analytics and City Science*, 41: 551-570. (IF = 3.619) doi.org/10.1068/b120017p
- 39. Kontokosta, Constantine E. 2014. "Mixed-Income Housing and Neighborhood Integration: Evidence from Inclusionary Zoning Programs," *Journal of Urban Affairs*, 36: 716-741. (IF = 3.377) doi.org/10.1111/juaf.12068
- 40. Kontokosta, Constantine E. 2013. "Energy Disclosure, Market Behavior, and the Building Data Ecosystem," *Annals of the New York Academy of Sciences*, 1295: 34-43. (IF = 5.691) doi.org/10.1111/nyas.12163
- 41. **Kontokosta, Constantine E.** 2013. "Tall Buildings and Urban Expansion: Tracing the History of Zoning in the United States," *ASCE Journal of Leadership and Management in Engineering*, 13: 190-198.
- 42. Kontokosta, Constantine E. 2012. "The Price of Victory: The Impacts of the Olympic Games on Residential Real Estate Markets," *Urban Studies*, 49: 961-978. (IF = 4.663) doi.org/10.1177/0042098011411952
- 43. **Kontokosta, Constantine E.** 2011. "Greening the Regulatory Landscape: The Spatial and Temporal Diffusion of Green Building Policies in U.S. Cities," *Journal of Sustainable Real Estate*, 3: 68-90. doi.org/10.5555/jsre.3.1.hx085737n8325333

# **Peer-reviewed Conference Proceedings**

- 44. <u>Bartosz Bonczak</u>, *Boyeong Hong*, and **Constantine E. Kontokosta**. 2023. "A High-Resolution, Data-Driven Model of Urban Carbon Emissions," *International Conference on Learning Representations, Workshop on Machine Learning for Climate Change* (remote). (**Best Paper Award** – **Pathway to Impact**)
- 45. Johnson, Nicholas, Pablo Mandiola, Cyrus Blankinship, Bartosz Bonczak, and Constantine E. Kontokosta. 2019. "Validating the Use of Wi-Fi Signals to Estimate Hyperlocal Urban Population," *IEEE International Conference on Big Data (Big Data)*, Los Angeles, CA.
- 46. Kontokosta, Constantine E., Yuan Lai, Bartosz Bonczak, Sokratis Papadopoulos, Boyeong Hong, Awais Malik, and Nicholas Johnson. 2018. "A Dynamic Spatial-Temporal Model of Urban Carbon Emissions for Data-Driven Climate Action by Cities," Proceedings of the 2018 Bloomberg Data for Good Exchange Conference, New York, NY.
- 47. Kontokosta, Constantine E. and <u>Boyeong Hong</u>. 2018. "Who Calls for Help? Statistical Evidence of Disparities in Citizen-Government Interactions Using Geospatial Survey and 311 Data from Kansas City," *Proceedings of the 2018 Bloomberg Data for Good Exchange Conference*, New York, NY.
- 48. <u>Papadopoulos, Sokratis</u> and **Constantine E. Kontokosta**. 2018. "Revisiting city energy performance grading: The inadequacy of current standards and the potential of big data," *Proceedings of the 3<sup>rd</sup> International Graduate Student Symposium of the PhD Program, IIT College of Architecture*, Chicago, IL.
- 49. Kontokosta, Constantine E., <u>Boyeong Hong</u>, and <u>Kristi Korsberg</u>. 2017. "Equity in 311 Reporting: Understanding Socio-Spatial Differentials in the Propensity to Complain," *Proceedings of the 2017 Bloomberg Data for Good Exchange Conference*, New York, NY.

- 50. Kontokosta, Constantine E., <u>Boyeong Hong</u>, <u>Awais Malik</u>, Ira Bellach, <u>Xueqi Huang</u>, <u>Kristi</u> <u>Korsberg</u>, <u>Dara Perl</u>, and <u>Avikal Somvanshi</u>. 2017. "Predictors of Re-Admission for Homeless Families in New York City: The Case of the Win Shelter Network," *Proceedings of the 2017 Bloomberg Data for Good Exchange Conference*, New York, NY.
- 51. <u>Lai, Yuan</u> and **Constantine E. Kontokosta**. 2017. "Measuring the Impact of Urban Street Trees on Air Quality and Respiratory Illness: A Data-Driven Approach to Environmental Justice," *Proceedings of the 2017 Bloomberg Data for Good Exchange Conference*, New York, NY.
- 52. Traunmueller, Martin, Nicholas Johnson, Awais Malik, and Constantine E. Kontokosta. 2017. "Digital Traces: Modeling Urban Mobility using Wifi Probe Data," Proceedings of the 6th International Workshop on Urban Computing, ACM SIGKDD 2017.
- 53. Kontokosta, Constantine E. 2017. "Urban Informatics for Social Good," *Proceedings of the Second International Workshop on Science of Smart City Operations and Platforms Engineering, Cyber Physical Systems Week*, Pittsburgh, PA.
- 54. Qian, Cheng, *Phillip Kats*, Sergey Malinchik, Mark Hoffman, Brian Kettler, Constantine E. Kontokosta, and Stanislav Sobolevsky. 2017. "Geo-tagged Social Media Data as a Proxy for Urban Mobility. *Advances in Cross-Cultural Decision Making: Proceedings of the AHFE 2017 International Conference, Los Angeles, California*, 610: 29. Springer.
- 55. <u>Papadopoulos, Sokratis</u> and **Constantine E. Kontokosta**. 2017. "Big Buildings and Big Data: Do Energy Disclosure Policies Impact Energy Use over Time?" In *Computing in Civil Engineering 2017*.
- 56. Kontokosta, Constantine E., *Bartosz Bonczak*, and <u>Sokratis Papadopoulos</u>. 2017. "Spatial and Geographic Patterns of Building Energy Performance: A Cross-City Comparative Analysis of Large-Scale Data," *American Society of Civil Engineers (ASCE) International Conference on Sustainable Infrastructure*, New York, NY.
- 57. <u>Awais Malik</u> and **Constantine E. Kontokosta.** 2017. "Measuring Building Risk and Resilience: A Big Data Approach to Risk Analytics for Infrastructure," *American Society of Civil Engineers (ASCE) International Conference on Sustainable Infrastructure*, New York, NY.
- 58. Kontokosta, Constantine E., <u>Nicholas Johnson</u>, and Anthony Schloss. 2016. "The Quantified Community at Red Hook: Urban Sensing and Citizen Science in Low-Income Neighborhoods," *Proceedings of the 2016 Bloomberg Data for Good Exchange Conference*.
- 59. Kontokosta, Contantine E., *Bonczak, Bartosz*, and Duer-Balkind, Marshall. 2016. "DataIQ: Measuring Data Quality and Reliability of Self-Reported Energy Benchmarking Data," *Proceedings of the ACEEE Summer Study on Energy Efficiency in Buildings*.
- 60. Kontokosta, Constantine E. and <u>Christopher Tull</u>. 2016. "EnergyViz: Web-Based Eco-Visualization of Urban Energy Use from Building Benchmarking Data," *Proceedings of the International Conference on Computing in Civil and Building Engineering*.
- 61. Kontokosta, Constantine E. and <u>Christopher Tull</u>. 2015. "Web-Based Visualization and Prediction of Urban Energy Use from Building Benchmarking Data," *Proceedings of the 2015 Bloomberg Data for Good Exchange Conference*. (Best Paper Award)
- 62. Jain, Rishee, Theodoros Damoulas, and **Constantine E. Kontokosta**. 2014. "Towards Data-Driven Energy Consumption Forecasting of Multi-Family Residential Buildings: Feature Selection via The Lasso," *Proceedings of the 2014 ASCE International Conference on Computing in Civil and Building Engineering*, 1675-1682.
- 63. Kontokosta, Constantine E. 2014. "Urban Quantified Community," *Proceedings of the NIST-*ASCE-ASME Workshop on Sustainability Measurement Science, Reston, VA.
- 64. **Kontokosta, Constantine E.** 2013. "Is There a Link Between Energy Performance and Asset Value? Modeling the Determinants of Commercial Building Energy Efficiency," *Real Estate Research Institute Conference*.
- 65. Kontokosta, Constantine E. 2013. "Do Owners and Tenants Value Commercial Building Energy Performance?" *Massachusetts Institute of Technology-National University of Singapore-Maastricht University Research Symposium.*

- 66. Kontokosta, Constantine E. 2012. "Predicting Building Energy Efficiency Using New York City Benchmarking Data," *Proceedings of the ACEEE Summer Study on Energy Efficiency in Buildings*.
- 67. Kontokosta, Constantine E. 2009. "Equity and Efficiency in Urban Competition: The Case of the Olympic Games," *Economics of the Olympic Games Conference, University of Groningen*.

#### **Book Chapters**

- 68. Falcocchio, Giancarlo and **Constantine E. Kontokosta**. 2019. "Recapture the Value of Rail Transit," in *Maintaining: Public Works in the Next New York*, Daniel McPhee and Emma Ng, eds., New York: Urban Design Forum.
- 69. Kontokosta, Constantine E., Jeff Merritt, and Sander Dolder. 2018. "Solving City Challenges through Neighborhood Innovation Labs: Moving from Smart Cities to Informed Communities," in *Smarter New York City: How City Agencies Innovate*, André Corrêa d'Almeida, ed., New York: Columbia University Press.
- 70. Kontokosta, Constantine E. 2009. "Developer," in *Encyclopedia of Urban Studies*. Ed. Ray Hutchison. Newbury Park, CA: Sage Publications.

#### **Case and Teaching Materials**

71. Kontokosta, Constantine E., Mitchell Weiss, Christine Snively, and Sarah Gulick. 2017. "NYC311," Harvard Business School Case 818-056, November.

#### **Technical Reports and Other Significant Publications**

- 72. Kontokosta, Constantine E., Vincent Reina, and Bartosz Bonczak. 2020. JAPA Takeaway: High Energy Cost Burdens on Low-Income Households. *Planning*, 86: 17-18.
- 73. Lobo, José, et al. 2020. "Urban Science: Integrated Theory from the First Cities to Sustainable Metropolises." Report submitted to the NSF on the Present State and Future of Urban Science, 2020. Available at SSRN: <u>https://ssrn.com/abstract=3526940</u> or <u>http://dx.doi.org/10.2139/ssrn.3526940</u>.
- 74. Gupta, Arpit, Stijn Van Nieuwerburgh, and **Constantine E. Kontokosta**. 2020. "Take the Q Train: Value Capture of Public Infrastructure Projects." *NBER Working Paper* w26789.
- 75. City of New York. 2017. *New York City's Energy and Water Use Report 2017*. New York: Mayor's Office of the City of New York (co-author and lead data scientist).
- 76. Commercial Data Working Group. 2017. *Commercial Real Estate Data: Towards Parity with Other Asset Classes*. University of North Carolina, Kenan-Flagler Business School Working Paper.
- 77. Kontokosta, Constantine E., John Lee, and Russell Unger. 2016. *New York City's Energy and Water Use Report*. New York: Mayor's Office of the City of New York.
- 78. Kontokosta, Constantine E. 2016. "Building Efficiency: The Case for Data and Cities," *Issues in Science and Technology*. Fall 2016.
- 79. Kontokosta, Constantine E. 2016. "Urban Planning in the Informatics Age," NYU Digital Humanities, invited blog post.
- 80. Kontokosta, Constantine E., <u>Awais Malik</u>, and <u>Christopher Tull</u>. 2015. Spatial Analysis of Commercial Waste Haulers and Waste Generation Rates in NYC. Report to the NYC Business Integrity Commission.
- 81. Kontokosta, Constantine E., et al. 2015. *Benchmarking and Data Quality Analysis of Energy Disclosure Data for Washington, DC*. Report to the Washington, DC District Department of the Environment.
- 82. Koonin, Steven E. and **Constantine E. Kontokosta**. 2015. *Urban Electrification*. Report to the President's Council of Advisors on Science and Technology (PCAST), Executive Office of the President.
- 83. Kontokosta, Constantine E. 2015. "Data and the City: The Promise and Perils of Urban Informatics," *Sallan Foundation Snapshot*, July 7.

- 84. Kontokosta, Constantine E. and <u>Awais Malik</u>. 2015. *The Resilience to Disasters and Emergencies Index (REDI): A Methodology for Quantifying Community Resilience Capacity*. Report to the New York State Office of Storm Recovery.
- 85. Kontokosta, Constantine E., Eduardo Franco, and Anjali Mehta. 2015. *Tenant Star: Commercial Tenant Energy Performance Rating Model (Asset Manager Section)*. Report to CB Richard Ellis, Real Green Research Challenge.
- 86. Kontokosta, Constantine E. and *Daniel Marasco*. 2014. *NYSERDA Home Performance with Energy Star Program Analysis and Predictive Modeling*. Report to the New York State Energy Research and Development Authority and the New York State Office of the Governor.
- 87. City of New York. *New York City Local Law 84 Benchmarking Report, 2014.* New York, NY: Mayor's Office of Long-Term Planning and Sustainability, September (Provided data analysis and policy recommendations).
- 88. Kontokosta, Constantine E. 2013. *Structure for National Reports on Buildings & Climate Change: Energy & GHG Baseline and Reduction Potential for the U.S. Building Sector*. Paris: United Nations Environment Programme.
- 89. City of New York. 2013. *New York City Local Law 84 Benchmarking Report, September 2013*. New York, NY: Mayor's Office of Long-Term Planning and Sustainability. (Provided data analysis with David Hsu).
- 90. Kontokosta, Constantine E. 2013. Local Law 84 Energy Benchmarking Data: 2<sup>nd</sup> Year Analysis. Report to the New York City's Mayor's Office of Long-Term Planning and Sustainability. (Provided data analysis with David Hsu).
- 91. <u>Lester, Danielle, Kimberly Gift, Sarah Xu</u>, and **Constantine E. Kontokosta**. 2013. *Energy Efficiency Portfolio Analysis of NYU Facilities*. Report to the NYU Office of Facilities and Construction Management and NYU Office of Sustainability. New York, NY: NYU Center for the Sustainable Built Environment.
- 92. City of New York. 2012. *New York City Local Law 84 Benchmarking Report, August 2012*. New York, NY: Mayor's Office of Long-Term Planning and Sustainability. (Provided data analysis with David Hsu).
- 93. Kontokosta, Constantine E. 2012. *Local Law 84 Energy Benchmarking Data*. Report to the New York City's Mayor's Office of Long-Term Planning and Sustainability.
- 94. Kontokosta, Constantine E. 2012. "Market Transformation through Information: The Role of Building Energy Performance Data in Reducing Global Greenhouse Gas Emissions," UN Global Forum on Human Settlements: World Best Practices, 12: 93-98.
- 95. Kontokosta, Constantine E. 2012. "Leveraging Capital Markets for Energy Efficient Building Retrofits," *MODUS Americas (Journal of the Royal Institution of Chartered Surveyors)*, May.
- 96. Kontokosta, Constantine E. 2012. "Market View: Building the Smart City," *Commercial Property Executive*, April.
- 97. Kontokosta, Constantine E. 2011. "The Emerging Market for Building Energy Retrofits: Navigating the Investment Frontier," *Real Estate Finance Intelligence*, August.
- 98. Kontokosta, Constantine E. 2011. "The Diffusion of Green Building Policies in U.S. Cities," *Premises (NYU Schack Institute Research Journal)* 1: 6-9.
- 99. Kontokosta, Constantine E. 2009. "The Neighborhood Revitalization Index," Citizens Housing and Planning Council White Paper.

# **RESEARCH FUNDING AWARDED**

(% indicates p	portion of the award to my research group)
2025-2030	PI (on subaward to NYU): Local Law 97: Driven by Community Needs and Leading the
	Way to Net Zero (Agency Lead: NYC Department of Buildings)
	Sponsor: U.S. Department of Energy
	Funding Amount: <b>\$19,900,000 (\$3,000,000 to Kontokosta)</b>
2024-2026	PI: Neighborhood Dynamics and the Inequality of Place: Using Large-Scale Mobility
	Behavior Data to Understand Socio-Spatial Disparities in Community Connectedness
	(co-PI Freeman, UPenn)
	Sponsor: National Science Foundation
	Funding Amount: <b>\$400,000 (65%)</b>
2024-2026	PI (on subaward to NYU): Air Quality Data Analytics for Environmental Justice (PI: Red
	Hook Initiative) (pending)
	Sponsor: Google Environmental Justice Data Fund
	Funding Amount: \$500,000 (50%)
2024-2025	Co-PI: Assessing Local Buildings Performance Standards (PI Wyman, NYU Law)
	(pending)
	Sponsor: Klingenstein Philanthropies
	Funding Amount: <b>\$100,000 (25%)</b>
2023-2025	PI (on subaward to NYU): Red Hook Action for Clean Air (PI: Red Hook Initiative)
	Sponsor: U.S. Environmental Protection Agency
	Funding Amount: <b>\$50,000 (100%)</b>
2023-2024	PI: Using Machine Learning to Predict the Impact of Remote Work on the Built
	Environment (co-PI Angel, NYU Marron)
	Sponsor: Land Economics Foundation
	Funding Amount: <b>\$15,000 (100%)</b>
2022-2023	PI: The Shifting Nature of Work and the Impact on U.S. Cities (co-PI Angel, NYU Marron)
	Sponsor: NYU Center for Urban Science and Progress
2021 2024	Funding Amount: <b>\$25,000 (100%)</b>
2021-2024	Co-PI: FAI: End-To-End Fairness for Algorithm-in-the-Loop Decision Making in the
	Public Sector (PI: Neill)
	Sponsor: National Science Foundation; Amazon
2020-2021	Funding Amount: \$1,000,000 (\$625,000 - NSF; \$375,000 - Amazon) (20%)
2020-2021	<b>PI</b> : RAPID: Computational Modeling of Contact Density and Outbreak Estimation for
	COVID-19 Using Large-scale Geolocation Data from Mobile Devices (Co-PIs: Thorpe,
	NYU Langone; Gupta, NYU Stern) Sponsor: National Science Foundation
	Funding Amount: <b>\$199,958 (50%)</b>
2019-2020	Co-PI: Carbon Trading System
2019-2020	Sponsor: New York City Department of Environmental Protection
	Funding Amount: \$1,833,373 (5%)
2019-2021	<b>PI:</b> EAGER: Bias and Discrimination in City Predictive Analytics (Co-PI: Neill)
2019-2021	Sponsor: National Science Foundation
	Funding Amount: <b>\$297,652 (50%)</b>
2018-2020	PI: Making Local Governments' Housing Quality Maintenance Systems Fairer and More
2010 2020	Efficient (Co-PIs: Been, NYU Law; Thorpe, NYU Langone; Neill, NYU Wagner)
	Sponsor: NYU Marron Institute Funding Amount: <b>\$50,000 (50%)</b>

2018-2019	PI: Estimating Office and Residential Building Energy Retrofit Hurdle Rates and Risk
	Arbitrage in Energy Efficiency Investments (Co-PIs: Pivo, U. of Arizona; Sagi, UNC-
	Kenan-Flagler; Fuerst, Cambridge)
	Sponsor: Real Estate Research Institute and Lawrence Berkeley National Laboratory
	Funding Amount: <b>\$50,000 (80%)</b>
2018-2019	PI: Take the Q Train: Value Capture of Public Infrastructure Projects (Co-PIs: Gupta, NYU
	Stern; Van Nieuwerburgh, Columbia)
	Sponsor: Lincoln Institute of Land Policy
	Funding Amount: <b>\$50,000 (50%)</b>
2018-2019	<b>Co-PI</b> : Assessing the Impact of New York City's Energy Audit Requirement on Building
	Energy Use (PI: Wyman, NYU Law)
	Sponsor: Sloan Foundation
	Funding Amount: <b>\$20,000 (50%)</b>
2018-2019	<b>Investigator:</b> Grid Dynamics and Energy Consumption Patterns through Remote
	Observations of City Light (PI: Bianco, NYU CUSP; Co-PI: Dobler, NYU CUSP)
	Sponsor: U.S. Department of Energy, ARPA-E
	Funding Amount: <b>\$500,000 (10%)</b>
2017-2022	PI: CAREER: Urban Informatics for Smart, Sustainable Cities: Toward a Data-Driven
	Understanding of Metropolitan Energy Dynamics
	Sponsor: National Science Foundation
	Funding Amount: <b>\$510,313 (100%)</b>
2017-2020	PI for sub-award: C2SMART (PI: Ozbay, NYU Tandon)
2017 2020	Sponsor: U.S. Department of Transportation
	Funding Amount: <b>\$287,794 (100%) (sub-award)</b>
2017-2018	PI: Quantified Community Analytics and Environmental Sensing Project
2017 2010	Sponsor: The Trust for Governor's Island
	Funding Amount: <b>\$70,000 (100%)</b>
2016-2018	<b>Co-PI</b> : Economics Impacts of Smart City Technologies (PI: Sobolevsky, NYU CUSP)
	Sponsor: Future Cities Catapult
	Funding Amount: <b>\$184,000 (80%)</b>
2016-2018	PI: Civic Analytics and Urban Data Science
	Sponsor: John D. and Catherine T. MacArthur Foundation
	Funding Amount: <b>\$250,000 (100%)</b>
2016-2018	<b>PI:</b> Data-Driven Urban Sustainability and Climate Mitigation Policy
	Sponsor: New York City Mayor's Office of Sustainability
	Funding Amount: <b>\$233,100 (100%)</b>
2016-2018	PI: Machine Learning and Big Data for Building Energy Informatics
	Sponsor: Siemens Corp.
	Funding Amount: <b>\$140,000 (100%)</b>
2016-2018	PI: Predictive Models for Urban Building Risk and Resilience
2010 2010	Sponsor: AIG Science
	Funding Amount: <b>\$134,000 (awarded)</b>
2016-2017	<b>Co-PI</b> : UVNets: Urban Vulnerability Networks (PI: Sobolevsky, NYU CUSP)
2010 2017	Sponsor: Lockheed Martin Corp.
	Funding Amount: <b>\$85,000 (75%)</b>
2016-2017	PI: CommunitySense: Using IoT for Real-Time Citizen Science
2010 2017	Sponsor: Google, Inc.
	Funding Amount: <b>\$50,000 (in-kind equipment and software/cloud services) (100%)</b>
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<ul> <li>Funding Amount: \$13,000 (75%)</li> <li>2015-2017 PI (for subaward to NVU): Big Data Hub – Northeast Region (PI: McKeown, Columbia) Sponsor: National Science Foundation Funding Amount: total award \$1,600,000; (in-kind to NVU)</li> <li>2015-2017 Co-PI: On-Call Management and Economic Development Consulting Services (PI: Koonin, NYU CUSP) Sponsor: New York City Economic Development Corporation Funding Amount: N/A</li> <li>2015-2016 PI: Energy Performance Data Quality and Reliability Analytics, Sponsor: District of Columbia, District Department of Environment Funding Amount: Sta3 90 (100%)</li> <li>2014-2016 PI: Tenant Energy Performance Recognition and Rating Model and Analytics Sponsor: CB Richard Ellis Research Grant Funding Amount: Sta3, 942 (100%)</li> <li>2013-2015 PI for sub-award; Assessment of Economic Vulnerability and Investment Strategies for Coastal Communities (PI: Griffis, NYU Tandon) Sponsor: New York State Office of Storm Recovery Funding Amount: Sta3, 942 (100%)</li> <li>2013-2015 Investigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU) Sponsor: Alfred P. Sloan Foundation Funding Amount: S10, 900 (100%)</li> <li>2013-2014 PI: Sustainability Research Grant Sponsor: New York University Funding Amount: S16, 900 (100%)</li> <li>2012-2013 PI forgy Performance, Asset Value, and Risk Exposure Sponsor: New York University Funding Amount: S10, 900 (100%)</li> <li>2012-2013 PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: New York University Funding Amount: S12, 000 (100%)</li> <li>2012-2013 PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: New York University Funding Amount: S12, 000 (100%)</li> <li>2012-2013 PI: Energy Deformance, Asset Value, and Risk Exposure Sponsor: New York University Funding Amount: S12, 000 (100%)</li> <li>2012-2013 PI: Energy Deformance, Asset Value, and Risk Exposure Sponsor: New York University Funding Amount: S12, 000 (100%)</li> <li>2011-2013 PI: Bata, Sus</li></ul>	2016-2017	<b>Co-PI</b> : Multilayered Social Media Urban Analytics System for Identifying Disruptions in NYC Local Urban Function (PI: Sobolevsky, NYU CUSP)
<ul> <li>2015-2017 PI (for subaward to NVU): Big Data Hub – Northeast Region (PI: McKeown, Columbia) Sponsor: National Science Foundation Funding Amount: total ward SI,600,000; (in-kind to NVU)</li> <li>2015-2017 Co-FI: On-Call Management and Economic Development Consulting Services (PI: Koonin, NYU CUSP) Sponsor: New York City Economic Development Corporation Funding Amount: N/A</li> <li>2015-2016 PI: Energy Performance Data Quality and Reliability Analytics, Sponsor: District of Columbia, District Department of Environment Funding Amount: S68,839 (100%)</li> <li>2014-2016 PI: Tenant Energy Performance Recognition and Rating Model and Analytics Sponsor: CB Richard Ellis Research Grant Funding Amount: S138,942 (100%)</li> <li>2013-2015 PI for sub-award: Assessment of Economic Vulnerability and Investment Strategies for Coastal Communities (PI: Griffis, NYU Tandon) Sponsor: New York State Office of Storm Recovery Funding Amount: Sub-award, S100,648 (100%)</li> <li>2013-2015 II: vestigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU) Sponsor: Alfred P. Sloan Foundation Funding Amount: S10,000 (10%)</li> <li>2013-2014 PI: Sustainability Research Grant Sponsor: New York University Funding Amount: S10,000 (10%)</li> <li>2012-2013 PI: University Research Challenge Fund Sponsor: New York University Funding Amount: S10,000 (100%)</li> <li>2012-2013 PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: Real Estate Research Institute Funding Amount: S12,000 (100%)</li> <li>2012-2013 PI: Research Grant, Sustainability Task Force Sponsor: Real Estate Research Institute Funding Amount: S100 (100%)</li> <li>2012-2013 PI: Cloal altsitution of Chartered Surveyors Funding Amount: S12,000 (100%)</li> <li>2011-2013 PI: Global GHG Emissions, Climate Change, and the Buildings Sector Sponsor: Royal Institution of Chartered Surveyors Funding Amount: S0,000 (100%)</li> <li>2011-2013 PI: Research Grant, Office of Sustainability Sponsor: New York U</li></ul>		Sponsor: University Research Challenge Fund, NYU Funding Amount: \$13,000 (75%)
Sponsor: National Science Foundation           Funding Amount: total award \$1,600,000; (in-kind to NYU)           2015-2017         Co-Pil: On-Call Management and Economic Development Consulting Services (PI: Koonin, NYU CUSP)           Sponsor: New York City Economic Development Corporation           Hunding Amount: NA           2015-2016           PI: Energy Performance Data Quality and Reliability Analytics, Sponsor: District of Columbia, District Department of Environment           Funding Amount: S68,839 (100%)           2014-2016         PI: Tenant Energy Performance Recognition and Rating Model and Analytics           Sponsor: New York City Economic Vulnerability and Investment Strategies for           Coastal Communities (PI: Griffs, NYU Tandon)           Sponsor: New York State Office of Storm Recovery           Funding Amount: S10,000 (10%)           2013-2015           Investigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU)           Sponsor: New York State Office of Storm Recovery           Funding Amount: S10,000 (10%)           2013-2014           Pi: sustainability Research Grant           Sponsor: New York University           Funding Amount: S10,000 (100%)           2012-2013           PI: Energy Performance, Assert Value, and Risk Exposure           Sponsor: New York University           Funding Amount: S12,000	2015-2017	-
<ul> <li>2015-2017 Co-PI: On-Call Management and Economic Development Consulting Services (PI: Koonin, NYU CUSP)</li> <li>Sponsor: New York City Economic Development Corporation Funding Amount: N/A</li> <li>2015-2016 PI: Energy Performance Data Quality and Reliability Analytics, Sponsor: District of Columbia, District Department of Environment Funding Amount: \$68,839 (100%)</li> <li>2014-2016 PI: Tenant Energy Performance Recognition and Rating Model and Analytics Sponsor: CB Richard Ellis Research Grant Funding Amount: \$138,942 (100%)</li> <li>2013-2015 PI for sub-award: Assessment of Economic Vulnerability and Investment Strategies for Coastal Communities (PI: Griffis, NYU Tandon) Sponsor: New York State Office of Storm Recovery Funding Amount: Sub-award, \$100,648 (100%)</li> <li>2013-2015 Investigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU) Sponsor: Alfred P. Sloan Foundation Funding Amount: \$200,000 (10%)</li> <li>2013-2014 PI: Sustainability Research Grant Sponsor: New York University Funding Amount: \$16,500 (100%)</li> <li>2012-2013 PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: New York University Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: New York University Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Research Challenge Fund Sponsor: New York University Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Research Challenge Fund Sponsor: New York University Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Research Institute Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Research Grant, Sustainability Task Force Sponsor: New York University Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Citata Research Institute Funding Amount: \$1,500 (100%)</li> <li>2011-2013 PI: Citata Chance Chance, and the Buildings Sector Sponsor: New York City Economic Development Corporation Funding Amount: \$250,000 (100%)&lt;</li></ul>		
<ul> <li>Koonin, NYU CUSP)</li> <li>Sponsor: New York City Economic Development Corporation Funding Amount: N/A</li> <li>2015-2016</li> <li>PI: Energy Performance Data Quality and Reliability Analytics, Sponsor: District of Columbia, District Department of Environment Funding Amount: S68, 839 (100%)</li> <li>2014-2016</li> <li>PI: Tenant Energy Performance Recognition and Rating Model and Analytics Sponsor: CB Richard Ellis Research Grant Funding Amount: S18, 942 (100%)</li> <li>2013-2015</li> <li>PI for sub-award: Assessment of Economic Vulnerability and Investment Strategies for Coastal Communities (PI: Griffis, NYU Tandon)</li> <li>Sponsor: New York State Office of Storm Recovery Funding Amount: S18, 942 (100%)</li> <li>2013-2015</li> <li>Investigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU) Sponsor: New York State Office of Storm Recovery</li> <li>Funding Amount: \$200,000 (10%)</li> <li>2013-2014</li> <li>PI: Sustainability Research Grant Sponsor: New York University Funding Amount: \$16,500 (100%)</li> <li>2012-2013</li> <li>PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: New York University Funding Amount: \$12,000 (100%)</li> <li>2012-2013</li> <li>PI: Research Grant, Sustainability Task Force Sponsor: Real Estate Research Institute Funding Amount: \$11,500 (100%)</li> <li>2012-2013</li> <li>PI: Research Grant, Sustainability Task Force Sponsor: Real Estate Research Institute Funding Amount: \$11,500 (100%)</li> <li>2011-2013</li> <li>PI: Data, Sustainability, and Urban Property Markets Sponsor: Royal Institution of Chartered Surveyors Funding Amount: \$30,000 (100%)</li> <li>2011-2013</li> <li>PI: Global GHG Emissions, Climate Change, and the Buildings Sector Sponsor: United Nations Environment Programme Funding Amount: \$30,000 (100%)</li> <li>2011-2012</li> <li>PI: Research Grant, Office of Sustainability Sponsor: New York University Funding Amount: \$250,000</li></ul>		Funding Amount: total award \$1,600,000; (in-kind to NYU)
<ul> <li>Sponsor: New York City Economic Development Corporation Funding Amount: N/A</li> <li>2015-2016 PI: Energy Performance Data Quality and Reliability Analytics, Sponsor: District of Columbia, District Department of Environment Funding Amount: \$68,839 (100%)</li> <li>2014-2016 PI: Tenant Energy Performance Recognition and Rating Model and Analytics Sponsor: CB Richard Ellis Research Grant Funding Amount: \$138,942 (100%)</li> <li>2013-2015 PI for sub-award: Assessment of Economic Vulnerability and Investment Strategies for Coastal Communities (PI: Griffis, NYU Tandon) Sponsor: New York State Office of Storm Recovery Funding Amount: Sub-award, \$100,648 (100%)</li> <li>2013-2015 Investigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU) Sponsor: Alfred P. Sloan Foundation Funding Amount: \$200,000 (10%)</li> <li>2013-2014 PI: Sustainability Research Grant Sponsor: New York University Funding Amount: \$16,500 (100%)</li> <li>2012-2013 PI: University Research Challenge Fund Sponsor: New York University Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: Real Estate Research Institute Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Research Grant, Sustainability Task Force Sponsor: New York University Funding Amount: \$11,500 (100%)</li> <li>2012-2013 PI: Bergy Performance, Asset Value, and Risk Exposure Sponsor: New York University Funding Amount: \$11,500 (100%)</li> <li>2011-2013 PI: Besearch Grant, Sustainability Task Force Sponsor: Royal Institution of Chartered Surveyors Funding Amount: \$30,000 (100%)</li> <li>2011-2013 PI: Bota, Sustainability, and Urban Property Markets Sponsor: New York University Funding Amount: \$30,000 (100%)</li> <li>2011-2013 PI: Besearch Grant, Office of Sustainability Sponsor: New York University Funding Amount: \$30,000 (100%)</li> <li>2011-2013 PI: Bota, Sustainability, and Urban Property Markets Sponsor: Ney York University Funding Am</li></ul>	2015-2017	Co-PI: On-Call Management and Economic Development Consulting Services (PI:
<ul> <li>Funding Amount: N/A</li> <li>2015-2016 PI: Energy Performance Data Quality and Reliability Analytics, Sponsor: District of Columbia, District Department of Environment Funding Amount: \$68,839 (100%)</li> <li>2014-2016 PI: Tenant Energy Performance Recognition and Rating Model and Analytics Sponsor: CB Richard Ellis Research Grant Funding Amount: \$138,942 (100%)</li> <li>2013-2015 PI for sub-award: Assessment of Economic Vulnerability and Investment Strategies for Coastal Communities (PI: Griffis, NYU Tandon) Sponsor: New York State Office of Storm Recovery Funding Amount: Sub-award, \$100,648 (100%)</li> <li>2013-2015 Investigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU) Sponsor: Alfred P. Sloan Foundation Funding Amount: \$200,000 (10%)</li> <li>2013-2014 PI: Sustainability Research Grant Sponsor: New York University Funding Amount: \$16,500 (100%)</li> <li>2012-2013 PI: University Research Challenge Fund Sponsor: New York University Funding Amount: \$16,500 (100%)</li> <li>2012-2013 PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: Real Estate Research Institute Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Research Grant, Sustainability Task Force Sponsor: New York University Funding Amount: \$15,000 (100%)</li> <li>2012-2013 PI: Bats, Sustainability, and Urban Property Markets Sponsor: New York University Funding Amount: \$15,000 (100%)</li> <li>2011-2013 PI: Global GHG Emissions, Climate Change, and the Buildings Sector Sponsor: New York University Funding Amount: \$30,000 (100%)</li> <li>2011-2013 PI: Global GHG Emissions, Climate Change, and the Buildings Sector Sponsor: United Nations Environment Programme Funding Amount: \$0,000, including in-kind (100%)</li> <li>2011-2013 PI: Research Grant, Office of Sustainability Sponsor: New York University Funding Amount: \$0,000, including in-kind (100%)</li> <li>2011-2013 PI: Research Grant, Office of Sustainability Sponsor: New York University Funding</li></ul>		Koonin, NYU CUSP)
<ul> <li>2015-2016 PI: Energy Performance Data Quality and Reliability Analytics, Sponsor: District of Columbia, District Department of Environment Funding Amount: \$68,839 (100%)</li> <li>2014-2016 PI: Tenant Energy Performance Recognition and Rating Model and Analytics Sponsor: CB Richard Ellis Research Grant Funding Amount: \$138,942 (100%)</li> <li>2013-2015 PI for sub-award: Assessment of Economic Vulnerability and Investment Strategies for Coastal Communities (PI: Griffis, NYU Tandon) Sponsor: New York State Office of Storm Recovery Funding Amount: Sub-award, \$100,648 (100%)</li> <li>2013-2015 Investigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU) Sponsor: Alfred P. Sloan Foundation Funding Amount: \$200,000 (10%)</li> <li>2013-2014 PI: Sustainability Research Grant Sponsor: New York University Funding Amount: \$16,500 (100%)</li> <li>2012-2013 PI: University Research Challenge Fund Sponsor: New York University Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: Real Estate Research Institute Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Baresearch Grant Sustainability Task Force Sponsor: New York University Funding Amount: \$13,000 (100%)</li> <li>2012-2013 PI: Basearch Grant Sustainability Task Force Sponsor: New York University Funding Amount: \$13,000 (100%)</li> <li>2011-2013 PI: Basearch Grant, Sistainability Task Force Sponsor: New York University Funding Amount: \$30,000 (100%)</li> <li>2011-2013 PI: Bata, Sustainability, and Urban Property Markets Sponsor: Neyal Institution of Chartered Surveyors Funding Amount: \$30,000 (100%)</li> <li>2011-2013 PI: Bata, Sustainability, and Urban Property Markets Sponsor: Newal Antistica Environment Programme Funding Amount: \$30,000 (100%)</li> <li>2011-2013 PI: Research Grant, Office of Sustainability Sponsor: New York University Funding Amount: \$25,000 (100%)</li> <li>2011-2014 Co-PI: NYC Urban Technology Innovat</li></ul>		Sponsor: New York City Economic Development Corporation
<ul> <li>Sponsor: District of Columbia, District Department of Environment Funding Amount: \$68,839 (100%)</li> <li>2014-2016</li> <li>PI: Tenant Energy Performance Recognition and Rating Model and Analytics Sponsor: CB Richard Ellis Research Grant Funding Amount: \$138,942 (100%)</li> <li>2013-2015</li> <li>PI for sub-award: Assessment of Economic Vulnerability and Investment Strategies for Coastal Communities (PI: Griffis, NYU Tandon) Sponsor: New York State Office of Storm Recovery Funding Amount: Sub-award, \$100,648 (100%)</li> <li>2013-2015</li> <li>Investigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU) Sponsor: Alfred P. Sloan Foundation Funding Amount: \$200,000 (10%)</li> <li>2013-2014</li> <li>PI: Sustainability Research Grant Sponsor: New York University Funding Amount: \$16,500 (100%)</li> <li>2012-2013</li> <li>PI: University Research Challenge Fund Sponsor: New York University Funding Amount: \$12,000 (100%)</li> <li>2012-2013</li> <li>PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: Rea Estate Research Institute Funding Amount: \$12,000 (100%)</li> <li>2012-2013</li> <li>PI: Research Grant, Sustainability Task Force Sponsor: New York University Funding Amount: \$11,500 (100%)</li> <li>2011-2013</li> <li>PI: Research Grant, Sustainability Task Force Sponsor: New York University Funding Amount: \$31,000 (100%)</li> <li>2011-2013</li> <li>PI: Data, Sustainability, and Urban Property Markets Sponsor: New York University Funding Amount: \$30,000 (100%)</li> <li>2011-2013</li> <li>PI: Research Grant, Soutainability Task Force Sponsor: United Nations Environment Programme Funding Amount: \$30,000 (100%)</li> <li>2011-2013</li> <li>PI: Beta, Sustainability, and Urban Property Markets Sponsor: New York University Funding Amount: \$30,000 (100%)</li> <li>2011-2013</li> <li>PI: Research Grant, Office of Sustainability Sponsor: New York Cluiversity</li> <li>Funding Amount:</li></ul>		
<ul> <li>Funding Amount: \$68,839 (100%)</li> <li>P1: Tenant Energy Performance Recognition and Rating Model and Analytics Sponsor: CB Richard Ellis Research Grant</li> <li>Funding Amount: \$138,942 (100%)</li> <li>2013-2015</li> <li>P1 for sub-award: Assessment of Economic Vulnerability and Investment Strategies for Coastal Communities (PI: Griffis, NYU Tandon)</li> <li>Sponsor: New York State Office of Storm Recovery</li> <li>Funding Amount: Sub-award, \$100,648 (100%)</li> <li>2013-2015</li> <li>Investigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU)</li> <li>Sponsor: Alfred P. Sloan Foundation</li> <li>Funding Amount: \$200,000 (10%)</li> <li>2013-2014</li> <li>P1: Sustainability Research Grant</li> <li>Sponsor: New York University</li> <li>Funding Amount: \$16,500 (100%)</li> <li>2012-2013</li> <li>P1: University Research Challenge Fund</li> <li>Sponsor: Real Estate Research Institute</li> <li>Funding Amount: \$12,000 (100%)</li> <li>2012-2013</li> <li>P1: Research Grant, Sustainability Task Force</li> <li>Sponsor: New York University</li> <li>Funding Amount: \$11,500 (100%)</li> <li>2011-2013</li> <li>P1: Research Grant, Sustainability Task Force</li> <li>Sponsor: Roy Jong (100%)</li> <li>2011-2013</li> <li>P1: Data, Sustainability, and Urban Property Markets</li> <li>Sponsor: Royal Institution of Chartered Surveyors</li> <li>Funding Amount: \$30,000 (100%)</li> <li>2011-2013</li> <li>P1: Global GHG Emissions, Climate Change, and the Buildings Sector</li> <li>Sponsor: United Nations Environment Programme</li> <li>Funding Amount: \$30,000 (100%)</li> <li>2011-2014</li> <li>P1: Research Grant, Office of Sustainability</li> <li>Sponsor: New York University</li> <li>Funding Amount: \$30,000 (100%)</li> <li>2011-2014</li> <li>P1: Global GHG Emissions, Climate Change, and the Buildings Sector</li> <li>Sponsor: New York University&lt;</li></ul>	2015-2016	
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<ul> <li>2013-2015 PI for sub-award: Assessment of Economic Vulnerability and Investment Strategies for Coastal Communities (PI: Griffis, NYU Tandon) Sponsor: New York State Office of Storm Recovery Funding Amount: Sub-award, S100,648 (100%)</li> <li>2013-2015 Investigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU) Sponsor: Alfred P. Sloan Foundation Funding Amount: S200,000 (10%)</li> <li>2013-2014 PI: Sustainability Research Grant Sponsor: New York University Funding Amount: S16,500 (100%)</li> <li>2012-2013 PI: University Research Challenge Fund Sponsor: New York University Funding Amount: S12,000 (10%)</li> <li>2012-2013 PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: Real Estate Research Institute Funding Amount: S12,000 (100%)</li> <li>2012-2013 PI: Research Grant, Sustainability Task Force Sponsor: New York University Funding Amount: S11,500 (100%)</li> <li>2012-2013 PI: Research Grant, Sustainability Task Force Sponsor: New York University Funding Amount: S11,500 (100%)</li> <li>2011-2013 PI: Research Grant, Sustainability Task Force Sponsor: New York University Funding Amount: S30,000 (100%)</li> <li>2011-2013 PI: Global GHG Emissions, Climate Change, and the Buildings Sector Sponsor: United Nations Environment Programme Funding Amount: \$30,000 (100%)</li> <li>2011-2013 PI: Clobal GHG Emissions, Climate Change, and the Buildings Sector Sponsor: New York University Funding Amount: \$30,000 (100%)</li> <li>2011-2012 PI: Clobal GHG Emissions, Climate Change, and the Buildings Sector Sponsor: New York University Funding Amount: \$30,000 (100%)</li> <li>2011-2012 PI: Clobal GHG Emissions, Climate Change, and the Buildings Sector Sponsor: New York University Funding Amount: \$30,000 (100%)</li> <li>2011-2012 PI: Clobal GHG Emissions, Climate Change, and the Buildings Sector Sponsor: New York University Funding Amount: \$30,000 (100%)</li> <li>2011-2012 PI: Clobal GHG Emissions, Climate Change, and the Buildings Sector Sponsor: New York University Funding Amount: \$250</li></ul>		*
Coastal Communities (PI: Griffis, NYU Tandon) Sponsor: New York State Office of Storm Recovery Funding Amount: Sub-award, \$100,648 (100%) 2013-2015 Investigator: Urban Science and Informatics Research Planning Grant (PI: Koonin, NYU) Sponsor: Alfred P. Sloan Foundation Funding Amount: \$200,000 (10%) 2013-2014 PI: Sustainability Research Grant Sponsor: New York University Funding Amount: \$16,500 (100%) 2012-2013 PI: University Research Challenge Fund Sponsor: New York University Funding Amount: \$12,000 (100%) 2012-2013 PI: Energy Performance, Asset Value, and Risk Exposure Sponsor: Real Estate Research Institute Funding Amount: \$12,000 (100%) 2012-2013 PI: Research Grant, Sustainability Task Force Sponsor: New York University Funding Amount: \$11,500 (100%) 2011-2013 PI: Data, Sustainability, and Urban Property Markets Sponsor: Royal Institution of Chartered Surveyors Funding Amount: \$30,000 (100%) 2011-2013 PI: Global GHG Emissions, Climate Change, and the Buildings Sector Sponsor: United Nations Environment Programme Funding Amount: \$30,000, including in-kind (100%) 2011-2012 PI: Research Grant, Office of Sustainability Sponsor: New York University Funding Amount: \$30,000, including in-kind (100%) 2011-2012 PI: Research Grant, Office of Sustainability Sponsor: New York University Funding Amount: \$30,000, including in-kind (100%) 2011-2012 PI: Research Grant, Office of Sustainability Sponsor: New York University Funding Amount: \$30,000, including in-kind (100%) 2010-2012 Co-PI: NYC Urban Technology Innovation Center (PI: Becker, NYU Tandon) Sponsor: New York City Economic Development Corporation Funding Amount: \$250,000; joint with City University of New York and Columbia		<b>e</b>
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<ul> <li>Sponsor: Alfred P. Sloan Foundation         <ul> <li>Funding Amount: \$200,000 (10%)</li> </ul> </li> <li>2013-2014 PI: Sustainability Research Grant             Sponsor: New York University             Funding Amount: \$16,500 (100%)</li> </ul> <li>2012-2013 PI: University Research Challenge Fund         Sponsor: New York University         Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Energy Performance, Asset Value, and Risk Exposure         Sponsor: Real Estate Research Institute         Funding Amount: \$12,000 (100%)</li> <li>2012-2013 PI: Research Grant, Sustainability Task Force         Sponsor: New York University         Funding Amount: \$11,500 (100%)</li> <li>2012-2013 PI: Research Grant, Sustainability, Task Force         Sponsor: New York University         Funding Amount: \$11,500 (100%)</li> <li>2011-2013 PI: Data, Sustainability, and Urban Property Markets         Sponsor: Royal Institution of Chartered Surveyors         Funding Amount: \$30,000 (100%)</li> <li>2011-2013 PI: Global GHG Emissions, Climate Change, and the Buildings Sector         Sponsor: United Nations Environment Programme         Funding Amount: \$60,000, including in-kind (100%)</li> <li>2011-2012 PI: Research Grant, Office of Sustainability         Sponsor: New York University         Funding Amount: \$9,500 (100%)</li> <li>2010-2012 Co-PI: NYC Urban Technology Innovation Center (PI: Becker, NYU Tandon)         Sponsor: New York City Economic Development Corporation         Funding Amount: \$250,000; joint with City University of New York and Columbia</li>		Funding Amount: Sub-award, \$100,648 (100%)
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		University (in-kind)

2009-2010	PI: Research Grant, Sustainability Task Force
	Sponsor: New York University
	Funding Amount: <b>\$26,000 (100%)</b>
2008-2010	PI: Effects of Inclusionary Zoning on Neighborhood Racial and Economic Integration
	Sponsor: U.S. Department of Housing and Urban Development
	Funding Amount: <b>\$25,000 (100%)</b>

### **CURRICULUM LEADERSHIP & PROGRAM DEVELOPMENT**

### **Center for Urban Science and Progress**

**Director - MS in Applied Urban Science and Informatics – Approved 2012. Launched Fall 2013.** Designed, developed, and launched the first inter-disciplinary program in urban informatics. Created curriculum and led the University and New York State approval processes. Organized and chaired faculty committee representing eight (8) schools/departments at NYU including Courant Mathematical Institute, the Wagner School of Public Service, and the Tandon School of Engineering. Led multi-stakeholder program and curriculum reviewing that involved the City University of New York, Carnegie Mellon University, University of Warwick, and University of Toronto; industry partners including IBM, Cisco, ARUP, IDEO; U.S. Department of Energy National Laboratories; and New York City agencies, including the Mayor's Office of Data Analytics.

**Co-Chair - MS in Urban Policy Analytics, NYU Center for Urban Science and Progress and NYU Wagner School of Public Service – Approved 2016.** Co-led the creation of a joint program between the Center for Urban Science and Progress and the Wagner School of Public Service in urban analytics for policy and planning. Curriculum designed to integrate data science and policy-making, with an emphasis on applications in public health, housing, sustainability, and city operations.

Director - Advanced Certificate in Urban Informatics, NYU Center for Urban Science and Progress – Approved. 2012. Launched Fall 2013. Led the development of the Advanced Certificate program.

**Director - Executive Education Programs in Urban Analytics, NYU Center for Urban Science and Progress. Launched Fall 2013.** Led the creation of Executive Education curricula for professionals from industry and government agencies to understand the application of data analytics to urban management, policy, and planning.

### Department of Civil and Urban Engineering, Tandon School of Engineering

**Co-Chair - PhD in Urban Systems, Department of Civil and Urban Engineering and NYU Center for Urban Science and Progress. Launched Fall 2021.** Co-chaired the PhD program and led the creation of the proposal to create a PhD in Urban Systems program in the Department of Civil and Urban Engineering, in collaboration with the Center for Urban Science and Progress. The PhD is designed for students with engineering, science, computing, and quantitative social science backgrounds to study cities from a data-driven systems analysis perspective.

**Co-Chair - Undergraduate Minor in Urban Informatics in the B.S. in Civil Engineering Program, Department of Civil and Urban Engineering. Launched Fall 2021.** Developed a University-wide undergraduate minor in urban informatics.

#### Schack Institute of Real Estate

**Co-Chair - MS in Real Estate Development, NYU Schack Institute of Real Estate – Approved Spring 2010. Launched Fall 2010.** Co-chaired the committee that designed and launched a new MS program focusing on the technical, financial, regulatory, and design aspects of large-scale urban development. The program brings together students with backgrounds in finance, economics, law, public policy, planning, and engineering to the study of urban development processes.

**Director - Concentration in Sustainable Development, MS in Real Estate, NYU Schack Institute of Real Estate. Launched Fall 2010.** As part of the Center for the Sustainable Built Environment, designed and launched a concentration focusing on green building design, economics, and policy, emphasizing datadriven approaches to urban sustainability.

### TEACHING

(\*denotes new courses that I created)

### New York University

### **Center for Urban Science and Progress**

Civic Analytics and Urban Intelligence\* Urban Information and Community Technology for City Operations\* Urban Informatics for Smart, Sustainable Cities\* Foundations of Urban Science (team taught with Professors Batty, West, Lobo, and Bettencourt)\* Urban Science Intensive I & II: Applied Methods in Informatics (MS degree practicum)\* International Programs\*

- London, UK, Data Intensive Program, in partnership with University of Warwick
- Singapore, Global Smart Cities Intensive, in partnership with the Singapore Land Authority, Singapore Infocomm Development Authority, ARUP, and ETH-Zurich

### Schack Institute of Real Estate

Entrepreneurship and Innovation in Real Estate and Development\* Sustainable Development Thesis Capstone\* Green Building and Sustainable Development\* The Development Process Land Use and Environmental Regulation\* International Real Estate Development, offered in Berlin, Germany in partnership with TU Berlin\*

# ADVISEMENT

### **Post-doctoral Associates**

- 1. Boyeong Hong, PhD in Civil and Urban Engineering, NYU (2019-2023; currently a Fellow at the NYU Marron Institute)
- 2. Nicholas Johnson, PhD in Computer Science, University of Warwick (2019; currently at U.S. Agency for International Development)
- 3. Martin Traunmueller, PhD in Computer Science, University College London (2016-2017; currently Research Scientist at AIT Austrian Institute of Technology in the Sustainable Cities and Buildings Unit)
- 4. Santonu Goswami, PhD in Environmental Science & Engineering, University of Texas El Paso (2015-2016; currently Scientist-SE, National Remote Sensing Center, Indian Space Research Organization)
- 5. Daniel Marasco, PhD in Civil Engineering, Columbia University (2014-2015; currently AAAS Science & Technology Policy Big Data Fellow)
- 6. Rishee K. Jain, PhD in Civil Engineering, Columbia University (2013-2014; currently Assistant Professor and NSF SEES Fellow at Stanford University; I serve as the faculty mentor of the NSF SEES award)

### PhD Students – as Advisor

- 1. Bartosz Bonzcak (2022-), *Urban Systems*, Department of Civil and Urban Engineering and Center for Urban Science and Progress, New York University
- 2. Callie Clark (2022-), *Urban Systems*, Department of Civil and Urban Engineering and Center for Urban Science and Progress, New York University
- 3. Ryan Brenner (2022-), *Urban Systems*, Department of Civil and Urban Engineering, New York University
- 4. Boyeong Hong (2017-2019), *Urban Informatics*, Joint between Department of Civil and Urban Engineering and CUSP, New York University (currently a Fellow at the NYU Marron Institute)
- 5. Yuan Lai (2016-2019), *Civil Engineering, Urban Informatics*; Joint between Department of Civil and Urban Engineering and CUSP, New York University (currently Assistant Professor at Tsinghua University)
- 6. Sokratis Papadopoulos (2016-2019), *Civil Engineering, Urban Informatics*; Joint between Department of Civil and Urban Engineering and CUSP, New York University (currently Data Scientist at Amazon)
- 7. Awais Malik (2014-2018), *Civil Engineering, Urban Informatics*; Joint between Department of Civil and Urban Engineering and CUSP, New York University (currently Senior Manager of Analytics at Wayfair)
- 8. Nicholas Johnson (2015-2018), *Computer Science*; Joint between University of Warwick Department of Computer Science and CUSP, New York University (currently at U.S. Agency for International Development)

# PhD Students - as Committee Member/Reader

- 1. Yichun Zhou (2022-), NYU Tandon School of Engineering, Department of Civil and Urban Engineering
- 2. Tabitha Julien (2019-), NYU School of Medicine, Department of Population Health
- 3. Nicholas Panteleo (2022-2023), NYU School of Medicine, Department of Population Health
- 4. Frank DarConte (2013-2017), *Construction Management Analytics*, Department of Civil and Urban Engineering, NYU Tandon School of Engineering

### **Visiting Researchers and Students**

- 1. Lina Bjerke, Summer 2018, Jönköping International Business School, Sweden.
- 2. Dave Leather, Summer 2018, PhD Candidate, Economics, UNC Chapel Hill

### Master's Students - Graduate Research Assistants Funded and Supervised

- 1. Hanbyul Jo, CUSP 2022-2023
- 2. Elizabeth Johnson, CUSP, 2022-2023
- 3. Alexine Mathew, NYU Steinhardt, 2022
- 4. Zenn Wong, CUSP, 2021-2022
- 5. Yuan Zhao, NYU School of Global Public Health, 2021
- 6. Sean Chen, CUSP, 2020-2021
- 7. Kunru Lu, CUSP, 2020
- 8. Angelia Lau, CUSP, 2020
- 9. Earl Lin, CUSP, 2020
- 10. Tabitha Julien, NYU School of Medicine, 2019
- 11. Pablo Mandiola, CUSP, 2019
- 12. Cyrus Blankinship, CUSP, 2018-2019
- 13. Zhongheng Li, Computer Science, 2018
- 14. Emily Hansen, CUSP, 2017-2018
- 15. Jack Lundquist, CUSP, 2017-2018
- 16. Unisse Chua, CUSP, 2017-2018

- 17. Anastasiya Shegay, CUSP, 2016-2017
- 18. Ekaterina Levitskaya, CUSP, 2016-2017
- 19. Tashay Green, CUSP, 2016-2017
- 20. Kristin Korsberg, CUSP, 2016-2017
- 21. Geoff Perrin, CUSP, 2016-2017
- 22. Xinshi Zheng, CUSP, 2016-2017
- 23. Ian Wright, CUSP 2016-2017
- 24. Ian Stuart, CUSP, 2016-2017
- 25. Eren Con, CUSP, 2016
- 26. Philipp Kats, CUSP, 2016
- 27. Max Feinglass, CUSP, 2015-2016
- 28. Adhlere Coffey, CUSP, 2015-2016
- 29. Arno Amabile, CUSP, 2015-2016
- 30. Diego Garzon, CUSP, 2015
- 31. Eduardo Franco, CUSP, 2014-2015
- 32. Anjali Mehta, CUSP, 2014-2015
- 33. Christopher Tull, CUSP, 2014-2015
- 34. David Marulli, CUSP, 2014-2015
- 35. Patrick Atwater, CUSP, 2014-2015
- 36. Maha Yaqub, CUSP, 2014-2015
- 37. William Vidal, NYU Wagner, 2013-2015
- 38. Hassan Mohanna, CUSP, 2013-2014
- 39. Schuyler Poukish, CUSP, 2013-2014

### Master's Students - Research Theses and Capstone Team Projects Supervised (Selected)

- 1. Connor Chen, Matt Sloane, Alexis Soto-Colorado, and Adriano Yoshino, *Using Data Science to Improve First Responder Response Times* (Sponsor: City of New Orleans, Office of Performance and Accountability)
- 2. Xueqi Huang, Kristi Korsberg, Dara Perl, and Avikal Somvanshi, *Predictive Analytics for Homeless Shelter Outcomes* (Sponsor: Women-In-Need Homeless Shelter Network)
- 3. Trang Dam, Aaron D'Souza, Benjamin Miller, Zhaohong Niu, and Chunqing Xu, *Understanding Urban Mobility Patterns Using WiFi Data* (Sponsor: Alliance for Downtown New York)
- 4. Xianbo Gao, Enrique Sanz Gonzalez, Victor Sette Gripp, and Peng Jia, *The Energy Snapshot: Energy Efficiency Behavior Change Through Information Disclosure* (Sponsor: NYC Mayor's Office of Sustainability)
- 5. Alejandro Porcel, Tengfei Zhenga, Maria Ortiz, Jonathan Grundy, Eren Con, and Clayton Hunter, *Urban Sensing in Low-Income Communities* (Sponsor: **Red Hook Initiative**)
- 6. Daniel Starobin, Developing a Block Aggregated Residential Solid Waste Generation Model (Sponsor: New York City Department of Sanitation)
- 7. Maha Yaqub, Christopher Tull, and Rongqi Sun, *Data-Driven Modeling of Urban Energy Use for* Sustainability Planning (Sponsor: New York City Mayor's Office of Sustainability)
- 8. Richard Dunks, *Data Integration of Sensor and Administrative Records and Visualization of Water Street* (Sponsors: New York City Economic Development Corporation, Alliance for Downtown NY)
- 9. Amir Beshay, Winnie Kaaria, and Kathrine Elliott, *Evaluating the Estimation and Prediction* Accuracy of Environmental Impact Statements (Sponsors: New York City Mayor's Office of Environmental Conservation and New York City Department of Design and Construction)
- 10. Jane Adams, Haozhe Wang, Ling Zhou, and Miguel Castro, *Predicting the Adoption of Residential Energy Retrofits through Energy Audits* (Sponsor: New York State Energy Research and Development Authority)

11. Hassan Mohanna, Jeongki Lim, and Schuyler Poukish, *Mobility and Behavior in Urban Environments Using Multiple Sensing Modalities* (Sponsors: **Related Companies, Intersection, and Cisco Systems, Inc.**)

#### **Undergraduate Research Students Supervised**

- 1. Raka Day, NYU Tandon (Sustainable Urban Environments), Summer 2017
- 2. Pyay Aung San, NYU Tandon (Computer Science), Summer 2017
- 3. Ryan Sims, Northern Illinois University (Energy and Environmental Engineering), Summer 2017

### CONFERENCES AND SYMPOSIA ORGANIZED

2019	Chair, DARPA Microsystems Exploratory Council, City Pulse Workshop
2019	Technical Program Committee, Science of Smart City Operations and Platform
	Engineering (SCOPE), 4th Annual Conference, NIST Global Cities Team Challenge and
	Cyber-Physical Systems Week, Montreal, Canada
2018	Co-Chair, Next Generation Building Efficiency Policies, NYU School of Law, New York,
	NY
2018	Technical Committee, UNC Kenan-Flagler IPC-CREDA Real Estate Research
	Symposium, Chapel Hill, NC
2018	Scientific Committee, Buildings, Cities, and Performance, 3rd International Graduate
	School Symposium of the PhD Program at the Illinois Institute of Technology College of
	Architecture, Chicago, IL
2018	Chair, "Big Ideas" Session, Association of Collegiate Schools of Planning, Annual
	Conference, Buffalo, NY
2018	Panel Chair, "Smart Cities," Kavli Futures Symposium: Sensing the City, New York, NY
2018	Technical Program Committee, Science of Smart City Operations and Platform
	Engineering (SCOPE), 3rd Annual Conference, NIST Global Cities Team Challenge and
	Cyber-Physical Systems Week, Porto, Portugal
2017	Panel Chair, "Urban Computing and the Quantified Community," National Planning
	Conference, American Planning Association, New York, NY
2017	Technical Program Committee, Science of Smart City Operations and Platform
	Engineering (SCOPE), 2 <sup>nd</sup> Annual Conference, NIST Global Cities Team Challenge and
	Cyber-Physical Systems Week, Pittsburgh, PA
2016	International Scientific Committee, World Sustainable Built Environment Conference,
	Hong Kong
2016	Technical Program Committee, IEEE Frontiers in Education Research 2016 Conference,
	Pittsburgh, PA
2016	Panel Chair, "Smart Cities," NYU Tandon School of Engineering
2016	Technical Program Committee, Science of Smart City Operations and Platform
	Engineering (SCOPE) 2016 Conference, Vienna, Austria
2015	Technical Program Committee, ACM BuildSys Conference 2015, Seoul, South Korea
2015	Co-Chair, "Urban Resiliency: A Roadmap for Planning, Policy, and Design," New York
	Academy of Sciences Symposium
2014	Chair, "Taking Stock and Moving Forward: Ideas for the Next Generation of Sustainable
	Real Estate," Annual Conference, NYU Center for the Sustainable Built Environment,
	New York, NY
2014	Panel Chair, "Urban Sustainability and Big Data," The Energy Wise City Conference,
	NYU Center for Global Affairs, New York, NY
2013	Technical Program Committee, Urban Systems Collaborative 3rd Annual Symposium,
	Imperial College London

2013	Chair, Quantified Community Research Workshop, NYU Center for Urban Science and
	Progress, New York, NY
2013	Chair, Building Informatics Research Workshop, NYU Center for Urban Science and
	Progress, New York, NY
2013	Chair, "Big Data and Disruptive Innovation: Is the Real Estate Industry Next?"
	Conference, Annual Conference, NYU Center for the Sustainable Built Environment, New
	York, NY
2013	Organizing Committee, "From the Outside In: Sustainable Futures for Global Cities and
	Suburbs," Hofstra University, Hempstead, NY
2013	Track Chair, "Urban Big Data Analytics", AERTC Advanced Energy Conference
2012	Organizing Committee, Implications of a Data-Driven Built Environment Symposium,
	New York Academy of Sciences, New York, NY
2012	Chair, "Energy Performance, Risk, and Real Estate Capital Markets: Searching for
	Common Metrics," Annual Conference, NYU Center for the Sustainable Built
	Environment, New York, NY
2012	Co-Chair, Urban Systems Collaborative 2 <sup>nd</sup> Annual Symposium, UC Berkeley,
	Berkeley, CA
2011	Chair, "Building the Smart City: Removing Barriers, Fostering Innovation," Annual
	Conference, NYU Center for the Sustainable Built Environment, New York, NY
2011	Co-Chair, Urban Systems Collaborative 1 <sup>st</sup> Annual Symposium, New York University,
	New York, NY
2011	Chair, "The Real Estate Industry's Perspective on Green Building Technologies," NYC
	Urban Technology Innovation Center Symposium, New York, NY

# PRESENTATIONS AND INVITED RESEARCH TALKS

### **Peer-reviewed Conference Presentations and Abstracts**

- 1. **Kontokosta, Constantine E.** and <u>Bartosz Bonczak</u>. 2024. "Modeling Urban Carbon Emissions at the Human Scale," *American Meteorological Society Annual Meeting, 23<sup>rd</sup> Conference on AI in Environmental Science*, remote.
- 2. Gupta, Arpit, Stijn Van Nieuwerburgh, and **Constantine E. Kontokosta**. 2023. "Take the Q Train: Value Capture of Public Infrastructure Projects." *NBER Conference on Economics of Transportation in the 21st Century*. Remote.
- 3. **Kontokosta, Constantine E.**, <u>Bartosz Bonczak</u>, and *Boyeong Hong*. 2023. "A High-Resolution, Data-Driven Model of Urban Carbon Emissions," International Conference of Learning Representations (ICLR), Tackling Climate Change with Machine Learning Workshop, Kigali, Rwanda (remote).
- 4. **Kontokosta, Constantine E.**, *Boyeong Hong*, and <u>Bartosz Bonczak</u>. 2022. "Measuring Sensitivity to Social Distancing: Evidence of Racial and Income Disparities from Mobility and Complaint Data," Association of Public Policy Analysis and Management (APPAM) Annual Research Conference 2022, Washington, DC. (accepted)
- 5. Gupta, Arpit, Stijn Van Nieuwerburgh, and **Constantine E. Kontokosta**. 2020. "Take the Q Train: Value Capture of Public Infrastructure Projects." *NBER Summer Institute*, Cambridge, MA.
- 6. **Kontokosta, Constantine E.** 2020. "Computational Approaches to Urban Sustainability Policy and Planning," *2020 Joint Statistical Meetings*, Philadelphia, PA.
- 7. Arpit Gupta, **Constantine E. Kontokosta**, Stijn Van Nieuwerburgh, 2019. "Take the Q Train: Value Capture of Public Infrastructure Projects," 14<sup>th</sup> Meeting of the Urban Economics Association, Philadelphia, PA.
- 8. Kontokosta, Constantine E., Lance Freeman, and <u>Yuan Lai</u>. 2019. "Using Big Data and Social Media to Understand Neighborhood Conditions," Association of Public Policy Analysis and Management (APPAM) Annual Research Conference 2019, Denver, CO.

- 9. Kontokosta, Constantine E., Boyeong Hong, Bartosz Bonczak, and Arpit Gupta. 2019. "Analyzing Large-scale Human Mobility Patterns for Disaster Management and Planning," Institute for Operations Research and the Management Sciences (INFORMS) Annual Conference 2019, Seattle, WA.
- 10. Kontokosta, Constantine E., Franz Fuerst, Gary Pivo, Jacob Sagi, <u>Yuan Lai</u>, and <u>Sokratis</u> <u>Papadopoulos</u>. 2019. "Estimating Office and Residential Building Energy Retrofit Hurdle Rates and Risk Arbitrage in Energy Efficiency Investments," *Real Estate Research Institute Symposium*, Chicago, IL.
- 11. **Kontokosta, Constantine E.**, *Martin Traunmueller*, <u>Nicholas Johnson</u>, and *Bartosz Bonczak*. 2018. "Mobility and Human Trajectories Using Large-Scale Geospatial Data," *Association of Public Policy Analysis and Management (APPAM) Annual Research Conference 2018*, Washington, DC.
- 12. Kontokosta, Constantine E., Danielle Spiegel-Feld, and <u>Sokratis Papadopoulos</u>. 2018. "Do Mandatory Energy Audits Reduce Energy Use?" *Behavior, Energy, and Climate Change Annual Conference*, Washington, DC.
- 13. Freeman, Lance and **Constantine E. Kontokosta**. 2018. "Using Big Data and Machine Learning to Understand Neighborhood Dynamics," *Association of Collegiate School of Planning (ACSP) Annual Conference 2018*, Buffalo, NY.
- 14. Kontokosta, Constantine E., <u>Boyeong Hong</u>, and Daniel Starobin. 2017. "Data-Driven Policy Strategies for Zero Waste Sustainability Goals," *Association of Public Policy Analysis and Management (APPAM) Annual Research Conference 2017*, Chicago, IL.
- 15. <u>Boyeong Hong</u>, <u>Nicholas Johnson</u>, <u>Geoff Perrin</u>, Daniel Starobin, and **Constantine E. Kontokosta**. 2017. "Using Machine Learning to Predict Building Level Waste Generation and Recycling Rates," *Institute for Operations Research and the Management Sciences (INFORMS) Annual Conference* 2017, Houston, TX.
- 16. **Kontokosta, Constantine E.** and <u>Nicholas Johnson</u>. 2017. "Understanding Neighborhood Dynamics Through Low-cost In-situ Sensing of the Urban Troposphere," *American Meteorological Society's* 13<sup>th</sup> Symposium of the Urban Environment.
- 17. Sobolevsky, Stanislav, Sergey Malinchik, <u>Philipp Kats</u>, Cheng Qian, Satish Ukkusuri, Kaan Ozbay, **Constantine E. Kontokosta** and Mark Hoffman. 2017. "Networks of Urban Vulnerability," *Conference on Complex Systems*, Cancun, Mexico.
- 18. Kontokosta, Constantine E. 2017. "The Quantified Community," *American Planning Association*, National Planning Conference, New York, NY.
- 19. Kontokosta, Constantine E. and <u>Nicholas Johnson</u>. 2016. "Using WiFi Data for Localized, Real-Time Population Estimates," *Association for Public Policy Analysis and Management (APPAM)*, Annual Research Conference, Washington, DC.
- 20. Kontokosta, Constantine E. 2015. "Do Energy Disclosure Policies Drive Behavior Change?" Association for Public Policy Analysis and Management (APPAM), Annual Conference, Miami, FL.
- 21. Kontokosta, Constantine E. 2015. "Modeling the Building and Neighborhood Dynamics of Energy and Water Use in Multi-Family Housing," *American Real Estate and Urban Economics Association (AREUEA)*, Annual International Conference, Washington DC.
- 22. Kontokosta, Constantine E. 2015. "Real Estate Informatics: Implications for Investment and Valuation," Homer Hoyt Institute, *Weimar School of Advanced Studies*, West Palm Beach, FL.
- 23. Kontokosta, Constantine E. 2014. "Applying Behavioral Strategies to Energy Decisions," *Proceedings of the American Academy of Arts and Science/New York State Energy Research and Development Authority Joint Symposium*, PACE University, NY.
- 24. Kontokosta, Constantine E. 2014. "The Smart City and Its Discontents: Big Data, Urban Informatics, and a Science of Cities," *Association of Collegiate Schools of Planning (ACSP)*, Annual Conference, Philadelphia, PA.
- 25. Kontokosta, Constantine E. 2014. "Does Energy Disclosure Drive Efficiency?" *GreenBuild Annual Conference* (peer-reviewed research track), Philadelphia, PA.

- 26. Kontokosta, Constantine E. 2014. "Urban Informatics and the Quantified Community," *Urban Systems Workshop*, Carnegie Mellon University, PA.
- 27. Kontokosta, Constantine E. 2013. "How Far Can 'Big Data' Take Us to Understanding Cities," *Santa Fe Institute*, Santa Fe, NM.
- 28. Kontokosta, Constantine E. 2013. "Evaluating New York City's Energy Benchmarking Law," *GreenBuild Annual Conference* (peer-reviewed research track), Philadelphia, PA.
- 29. Kontokosta, Constantine E. 2013. "Investment Performance and Energy Disclosure," *NCREIF Research Leadership Summit*, Chicago, IL.
- 30. Kontokosta, Constantine E. 2013. "Urban Data Analytics," *Advanced Energy Conference*, Advanced Energy Research and Technology Center, New York, NY.
- 31. Kontokosta, Constantine E. 2013. "Exploring the Link between Building Energy Performance and Investment Performance: Evidence from New York City's Local Law 84 Data," *American Real Estate and Urban Economics Association (AREUEA)*, Annual Meeting, San Diego, CA.
- 32. Kontokosta, Constantine E. 2012. "Building the Smart City: Governance of Complex Urban Systems," *American Association of Geographers (AAG)*, Annual Conference, New York, NY.
- 33. Kontokosta, Constantine E. 2011. "Developing Country GHG Baseline Reports," United Nations Environment Progamme Symposium, Philadelphia, PA.
- 34. Kontokosta, Constantine E. 2011. "The Spatial Diffusion of Green Building Policies," *Strengthening the Green Foundation Conference, Federal Reserve Bank of Atlanta / Tulane University*, New Orleans, LA.
- 35. Kontokosta, Constantine E. 2011. "The City as Market-Maker: The Diffusion of Green Building Policies," *European Real Estate Society (ERES)*, Annual Conference, Eindhoven, The Netherlands.
- 36. Kontokosta, Constantine E. 2011. "Taking the LEED? Analyzing Spatial Variations in Market Penetration Rates of Eco-Labeled Properties," *American Real Estate Society (ARES)*, Annual Conference, Seattle, WA.
- 37. Kontokosta, Constantine E. 2010. "Spatial Patterns and Neighborhood Effects of Inclusionary Housing" *Association of Collegiate Schools of Planning (ACSP)*, Annual Conference, Minneapolis, MN.
- 38. Kontokosta, Constantine E. 2010. "The Impact of the Olympics on Emerging Economies: Opportunities for Capacity-Building through Urban Infrastructure and Development," *Latin American Real Estate Society (ARES)*, Annual Conference (invited), Sao Paulo, Brazil.
- 39. Kontokosta, Constantine E., Franz Fuerst, Patrick McAllister, and Tom Geurts. 2010. "Locational Determinants of Green Commercial Buildings," *European Real Estate Society (ERES)*, Annual Conference, Milan, Italy.
- 40. Kontokosta, Constantine E. 2010. "Setting the PACE: Financial Mechanisms for Building Energy Retrofits," *American Real Estate Society (ARES)*, Annual Conference, Naples, FL.
- 41. Kontokosta, Constantine E. 2009. "Neighborhood Revitalization: Quantitative Indicators and Predictive Model," *Association of Collegiate Schools of Planning (ACSP)*, Annual Conference, Crystal City, VA.
- 42. Kontokosta, Constantine E. 2009. "The Role of Regional Governance in the Production and Distribution of Affordable Housing," *The Diverse Suburb Conference: History, Politics, and Prospects,* Hofstra University, Hempstead, NY.
- 43. Kontokosta, Constantine E. 2009. "The Impact of the Olympic Games on Foreign Direct Investment in Real Estate," *European Real Estate Society (ERES)*, Annual Conference, Stockholm, Sweden.
- 44. Kontokosta, Constantine E. 2009. "The Interaction Effects of Inclusionary Zoning and Land Use Regulations," *American Real Estate Society (ARES)*, Annual Conference, Monterrey, CA.
- 45. Kontokosta, Constantine E. 2009. "Inclusionary Zoning and Neighborhood Racial and Economic Transition," Association of Collegiate Schools of Planning-Association of European Schools of Planning (ACSP-AESOP), Joint Annual Conference, Chicago, IL.

- 46. Kontokosta, Constantine E. and Justin P. Steil. 2008. "Moving Out, Moving Up or Not Moving at All? Gentrification, Mobility and Income for Poor New Yorkers," *Association of American Geographers (AAG)*, Annual Conference, Boston, MA.
- 47. Kontokosta, Constantine E. 2007. "Inclusionary Zoning and Affordable Housing: A Private Solution to a Public Problem?" *Association of Collegiate Schools of Planning (ACSP)*, Annual Conference, Fort Worth, TX.
- 48. Kontokosta, Constantine E. 2006. "Impacts of the Olympic Games on House Prices," American Real Estate and Urban Economics Association (AREUEA), Annual International Conference, Vancouver, Canada.

# Invited Research Talks, Seminars, and Keynotes

- 49. **Columbia University**, Graduate School of Architecture, Planning, and Preservation, New York, NY 2024
- 50. American Institute of Architects/American Planning Association, Re-Energizing the City Conference, New York, NY 2024
- 51. New York University, Urban Research Day, New York, NY 2024
- 52. Harvard University, Graduate School of Design, Boston, MA 2023
- 53. KAIST, Urban X Seminar Series, Daejeon, South Korea 2023 (remote)
- 54. Summer Institute in Computational Social Science, NYU Silver School of Social Work, New York, NY 2023
- 55. **New York University**, Center for Data Science, Machine Learning for Climate Change, New York, NY 2023
- 56. NYC Department of Transportation, New York, NY 2023
- 57. NYC Town & Gown Consortium, Department of Design & Construction, New York, NY 2022
- 58. University of Pennsylvania, Weitzman School of Design, Philadelphia, PA 2022 (remote)
- 59. Kings College London & CUSP London, Triumph of the City Seminar, London, UK 2021 (remote)
- 60. New York University, Urban Research Day, New York, NY 2021 (remote)
- 61. National Academy of Sciences, Board of Mathematical Sciences, Washington, DC 2021 (remote)
- 62. Seoul Metropolitan Government, Seoul Big Data Forum, Seoul, South Korea 2020 (remote)
- 63. U.S. Government Accountability Office (GAO), Artificial Intelligence Executive Roundtable, New York, NY 2019
- 64. Lawrence Berkeley National Lab, Urban Systems Group, San Francisco, CA 2019 (remote)
- 65. Fordham Law School, Cooper-Walsh Colloquium, New York, NY 2019
- 66. National Academy of Sciences, Urban Sustainability Webinar, Washington, DC 2019 (remote)
- 67. DARPA, Microsystems Exploratory Council, New York, NY 2019
- 68. **Massachusetts Institute of Technology**, Department of Urban Studies and Planning, Boston, MA, 2019
- 69. **National Academies of Sciences,** Board on Mathematical Sciences and Analytics, Washington, DC, 2019
- 70. Pension Real Estate Association and U.S. Department of Energy, New York, NY 2019
- 71. Kohn Pederson Fox, Leveraging Technology for Adaptable City Planning, New York, NY 2019
- 72. Council for Tall Buildings and Urban Habitat, New York, NY, 2018
- 73. New York University, Stern School of Business, Faculty Research Seminar, New York, NY, 2018
- 74. Dataiku, Analytics & Data Science Meetup, New York NY, 2018
- 75. Pension Real Estate Association, New York, NY, 2018
- 76. United Nations Youth Assembly, Smart Cities; Technology for Development, New York, NY, 2018
- 77. Harvard Business School, Guest Lecture in Public Innovation course, Cambridge, MA, 2017
- 78. U.S. Department of Transportation, C2SMART Center, New York, NY, 2017
- 79. University of North Carolina at Chapel Hill, Kenan-Flagler Business School, Chapel Hill, NC, 2017

- 80. National Academy of Sciences, Committee on Measuring Community Resilience, New York, NY, 2017
- 81. U.S. Environmental Protection Agency, Smart City Air Challenge (webinar), Washington, DC, 2017
- 82. NYU-Columbia Chilean Public Policy Association, Annual Conference, New York, NY 2017
- 83. United Nations International Telecommunications Union, Focus Group on Data Processing and Management to support IoT and Smart Cities & Communities, Geneva, Switzerland, 2017 (remote)
- 84. **New York University**, Stern School of Business, Center for Real Estate Finance Research, Seminar Series, New York, NY, 2017
- 85. Council on Competitiveness, Advanced Computing Roundtable, New York, NY, 2017
- 86. New York Academy of Medicine, New York, NY, 2017
- 87. New York University and AIG, Internet of Risky Things Symposium, New York, NY, 2017
- 88. **New York University**, Stern School of Business, Center for Real Estate Finance, Annual Spring Symposium, New York, NY, 2017
- 89. Harvard University, Center for Public Leadership, Boston, MA, 2017
- 90. Skidmore, Owings, and Merrill, Metropolis Think Tank, New York, NY, 2017
- 91. Ernst & Young, Annual Meeting, New York, NY, 2017
- 92. Kohn Pederson Fox, Making Cities Smarter: Using Data to Shape NYC, New York, NY, 2017
- 93. Urban Design Forum, Forefront Fellows Program, Urban Experience Design, New York, NY 2017
- 94. **National Academy of Sciences**, Committee on Applied and Theoretical Statistics, Washington, DC, 2016
- 95. Columbia University, Urban China Forum, New York, NY, 2016
- 96. University of North Carolina at Chapel Hill, Kenan-Flagler Business School, Chapel Hill, NC, 2016
- 97. New York University, Furman Center for Real Estate and Urban Policy, New York, NY, 2016
- 98. American Institute of Architects (AIA-NY Chapter), New York, NY, 2016
- 99. Central European University Business School, Visiting Delegation, New York, NY, 2016
- 100. New York City Department of Parks and Recreation, Parks without Borders Summit, New York, NY, 2016
- 101. New York City Economic Development Corporation, New York, NY, 2016
- 102. **Columbia University**, Graduate School of Architecture, Planning, and Preservation, New York, NY, 2016
- 103. Massachusetts Institute of Technology, Urban Physics Workshop, Cambridge, MA, 2016
- 104. New York University, Tandon School of Engineering, Dean's Research Seminar, New York, NY, 2016
- 105. New York Association for Energy Economics, New York, NY, 2016
- 106. CoreNet Global, Executive Leadership Council and Summit, Philadelphia, PA, 2016
- 107. Hellenic American Chamber of Commerce, Distinguished Lecture Series, New York, NY, 2016
- 108. **Bisnow**, Future of Real Estate Conference, New York, NY, 2016
- 109. UN-HABITAT III, Prague, Czech Republic, 2016 (invited)
- 110. CoreNet Global, Real Estate Technology Symposium, New York, NY, 2016
- 111. Columbia University, Sabin Center, and Sallan Foundation, Benchmarking Symposium, New York, NY, 2015
- 112. **New York University**, Stern School of Business, and Bloomberg LP Real Estate and Infrastructure Symposium, New York, NY, 2015
- 113. U.S. Department of Energy and Pacific Northwest National Lab, Washington, DC, 2015
- 114. Lviv Business School, Lviv, Ukraine, 2015 (remote)
- 115. NIST-ASCE-ASME Workshop on Economics of Community Disaster Resilience, Washington, DC, 2015
- 116. Thornton Tomasetti, CORE Studio, Architecture, Engineering, and Construction Technology Symposium, New York, NY, 2015

- 117. Academy of Arts and Sciences, Philanthropic Leadership Symposium, Washington, DC, 2015
- 118. Harvard University, Graduate School of Design, Boston, MA, 2014
- 119. EcoDistricts, Annual Summit, Washington, DC, 2014
- 120. ETH-Zurich, Future Resilient Cities Symposium, New York, NY, 2014
- 121. U.S. Department of Energy, Better Buildings Summit, Washington, DC, 2014
- 122. Sloan and MacArthur Foundations, Urban Science Convening, New York, NY, 2014
- 123. American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE), Winter Meeting, New York, NY, 2014
- 124. Urban Land Institute, Sustainability Workshop, "Big Data and New Measures of Building Performance", New York, NY, 2014
- 125. VERGE Salon, Next-Gen Buildings and Cities Conference, "America's Urban Future", New York, NY, 2014
- 126. Appraisal Institute, Annual Conference, "The Economics of Green Buildings", New York, NY, 2014
- 127. City of Seattle and the Institute for Market Transformation, "Data Analytics for Urban Energy Dynamics", Energy Benchmarking 2.0 Symposium, Washington, DC, 2014
- 128. New York University, Center for Global Affairs, The Measured City Conference, New York, NY, 2013
- 129. Columbia University, National Science Foundation IGERT Doctoral Seminar, New York, NY, 2013
- 130. City University of New York (CUNY), New York, NY, 2013
- 131. ONE Lab, Summer Design Program, New York, NY, 2013
- 132. IBM, Smarter Cities Technical Community Seminar, New York, NY, 2013
- 133. New York University, Institute for Public Knowledge, New York, NY, 2013
- 134. New York University, Stern School of Business, Center for Real Estate Finance Research Symposium, New York, NY, 2013
- 135. New York University, Wagner School of Public Service, New York, NY, 2013
- 136. The Brookings Institution, Washington, DC, 2013
- 137. American-Scottish Foundation, Energy Forum, New York, NY, 2013
- 138. New York University, Wallerstein Collaborative for Urban Environmental Education, New York, NY, 2013
- 139. The New School, Center for New York City Affairs, New York, NY, 2013
- 140. ARUP, Big Data Symposium, New York, NY, 2013
- 141. NYC DataWeek, New York, NY, 2013
- 142. CityAge, The Global Metropolis Conference, New York, NY, 2013
- 143. American Society of Engineering Education, Engineering Deans Institute, New York, NY, 2013
- 144. UC-Berkeley, Urban Systems Collaborative Annual Symposium, San Francisco, CA, 2012
- 145. Urban Systems Collaborative, Seminar Series, New York, NY, 2012
- 146. **New York University**, Wallerstein Collaborative for Urban Environmental Education, New York, NY, 2012
- 147. Abu Dhabi Urban Planning Council, New York University, New York, NY, 2012
- 148. Istanbul Metropolitan Municipality, New York University, New York, NY, 2012
- 149. New York University, Schack Institute of Real Estate, Sustainability Speaker Series, New York, NY, 2012
- 150. New York University, Stern School of Business, Urbanization Project Seminar Series, New York, NY, 2012
- 151. New York Academy of Sciences, Condensed Matter Physics Meeting, New York, NY, 2012
- 152. Chinese Ministry of Water Resources, New York, NY, 2012
- 153. Royal Institution of Chartered Surveyors, Annual Summit, Miami, FL, 2012
- 154. IBM Research and Ireland IDA, Yorktown, NY, 2012
- 155. New York Academy of Sciences, Implications of a Data-Driven Built Environment Symposium, New York, NY, 2012

- 156. University of Amsterdam, Amsterdam, The Netherlands, 2012
- 157. Urban Systems Symposium, Chicago, IL, 2012
- 158. Clinton Global Initiative, Winter Meeting, New York, NY, 2012
- 159. New York University, Wagner School of Public Service, New York, NY, 2012
- 160. Garrison Institute, Climate, Buildings, and Behavior Symposium, Garrison, NY, 2012
- 161. GoGreen Conference, New York, NY, 2012
- 162. **Cisco China City Leaders Program**, "Data-Driven City Operations for Sustainability", New York, NY, 2012
- 163. SolarOne, NYC ACRE, and NYU Urban Future Lab, Intelligent Infrastructure, Clean Energy Connections, New York, NY, 2012
- 164. Riverdale Country School, "The Emergence of Urban Science," Bronx, NY, 2012
- 165. **Brookhaven National Lab**, "Social Equity and Low-Income Housing Policy," Long Island Housing Summit, Brookhaven, NY, 2012
- 166. Urban Systems Collaborative, Annual Symposium, New York, NY, 2011
- 167. Ecole Hoteliere Lausanne and New York University, Tisch Center, New York, NY, 2011
- 168. U.S. Department of Energy, New York, NY, 2011
- 169. Clinton Global Initiative, New York, NY, 2011
- 170. New York City Urban Technology Innovation Center, New York, NY, 2011
- 171. **Columbia University**, Graduate School of Architecture, Planning, and Preservation, New York, NY, 2011
- 172. Hofstra University, Breslin Center Annual Conference, Hempstead, NY, 2011
- 173. Architecture for Humanity, Fall Humanitarian Design Conference, New York, NY, 2011
- 174. The New Downtown Conference, New York, NY, 2011
- 175. Council of Urban Professionals, Distinguished Leadership Series, New York, NY, 2011
- 176. UN Global Forum on Human Settlements, New York, NY, 2011
- 177. CoreNet Global, Annual Sustainability Summit, New York, NY, 2011
- 178. Stonybrook University, Advanced Energy Conference, New York, NY, 2010
- 179. New York Wastewater Infrastructure Summit, Hauppauge, NY, 2010
- 180. Suffolk County Planning Federation Conference, Brookhaven National Labs, NY, 2010
- 181. University of Amsterdam Exchange Program (at NYU), 2010
- 182. **Columbia University**, Graduate School of Architecture, Planning, and Preservation, New York, NY, 2010
- 183. New York University, Environmental Studies Program, New York, NY, 2010
- 184. New York University, Polytechnic Institute and NYC ACRE, New York, NY, 2010
- 185. New York University, Stern School of Business, New York, NY, 2010
- 186. New York University, Center for Advanced Digital Applications, New York, NY, 2010
- 187. United Nations Environment Programme, Sustainable Buildings and Climate Initiative Symposium, Shanghai, China, 2010
- 188. Molloy College, Clean Energy Task Force, Farmingdale, NY, 2010
- 189. Long Island Association, Board of Directors Annual Meeting, Melville, NY, 2010
- 190. Long Island Association, Annual Conference, Melville, NY, 2010

### LEADERSHIP AND SERVICE

#### **Boards, Advisory Committees, and External Service**

2019-	Steering Committee, National Science Foundation Northeast Big Data Innovation Hub
2023-2024	Editorial Board, Scientific Reports
2019	Reviewer Panel, Directorate of Computer and Information Science and Engineering,
	National Science Foundation

2018-2019 Member, Microsystems Exploratory Council (MEC), DARPA

2017-2019	Planning Committee, Workshop on the Frontiers of Big Data, Modeling, and Simulation in Urban Sustainability, Board of Mathematical Sciences and Analytics, National
2017-2018	Academy of Sciences Evaluation Committee, NYCx Urban Tech Challenge, NYC's Mayor's Office of the Chief Technology Officer
2017	Chief Technology Officer Reviewer Panel, Directorate of Computer and Information Science and Engineering, National Science Foundation (invited)
2017	External Reviewer, Geography and Spatial Sciences Program, National Science Foundation
2017	Invited participant, Envisioning Future Cities Workshop, organized by UIC, UoM, and GeorgiaTech, National Science Foundation
2016-2019	Member, Commercial Real Estate Data Initiative, University of North Carolina – Kenan Flagler Business School
2016-2017	Member, Expert Advisory Group, Future Cities Catapult
2016-2017	Member, Data into Action Advisory Group, Building Energy Exchange
2016	Site Visit Review Team, Engineering Research Center (ERC), National Science Foundation
2016	Member, Local Law 87 Energy Audit Technical Working Group, NYC Mayor's Office of Sustainability
2016	External Reviewer, Exascale Computing Project, U.S. Department of Energy
2016	External Grant Reviewer, Army Research Office, U.S. Department of Defense
2016	External Grant Reviewer, PSC-CUNY Research Award Program, City University of New
	York (CUNY)
2015-	Member, Steering Committee, NSF Big Data Hub – Northeast Region, National Science
2015	Foundation
2015-2022	Editorial Board, Journal of Sustainable Real Estate
2015-2016	Member, Smart City Working Group, New York State Regional Economic Development
2013 2010	Council
2015-2018	Member, Infrastructure Resilience Division, Risk and Resilience Measurements
	Committee, American Society of Civil Engineers
2014-2015	Member, Advisory Committee, Building Energy Data Initiative, Institute for Market
	Transformation
2014	Member, Advisory Committee, World to NYC Smart and Sustainable Cities Initiative,
	NYC Economic Development Corporation
2013-2014	Member, Advisory Board, 4th Regional Plan, Regional Plan Association
2011-2014	Elected Board Member, Americas Board, Royal Institution of Chartered Surveyors
2011-2014	Elected Board Member, Americas Education and Standards Board, Royal Institution of
	Chartered Surveyors
2011-2014	Co-Founder/Core Team Member, Urban Systems Collaborative
2012-2013	Member, Leadership Committee, Climate, Mind, and Behavior Initiative, Garrison
	Institute
2012-2013	Appointed member, 80x50 Long-Term Sustainability Plan Task Force, NYC Mayor's
	Office of Sustainability
2012-2013	Juror, Green Existing Building Award, Urban Green Council
2012	Member, Green Building Discussion Group, New York Academy of Sciences
2011-2015	Clinton Global Initiative
	Invited participant, CGI, CGI Winter Meeting, CGI America
	Member, Scaling Sustainable Buildings Action Network
	Member, Built Environment Track
2011-2012	Technical Advisory Panel, Energy Disclosure Law Impact Study, Institute for Market
	Transformation,

- 2011-2012 Board of Advisors, Sustainable Buildings and Climate Initiative (Elected), United Nations Environment Programme (UNEP)
- 2011-2012 Appointed member, Advisory Committee on Local Law 87 Energy Audits, NYC Mayor's Office of Sustainability
- 2011-2012 Appointed member, Advisory/Selection Committee, Municipal Entrepreneurial Testing System (METS), New York City Council
- 2011 Juror, Annual Real Estate Transactions Award, Commercial Property Executive Magazine
- 2010-2012 Member, Clean Energy Leadership Task Force, Sustainability Institute, Molloy College
- 2010-2012 Co-Founder/Executive Team, NYC Urban Technology Innovation Center
- 2009-2012 U.S. Department of Energy, Zero Energy Commercial Building Consortium Member, Owners and Tenants Group Member, Finance and Incentives Group
- 2006-2011 Engineers without Borders International, New York Professional Chapter Member, East Coast Technical Advisory Committee Member, Cambodia Project Team
- 2005-2012 Suffolk County Planning Commission, Hauppauge, NY (appointed) Vice Chair (elected) Chair, Suffolk County Housing Taskforce Co-Chair, Commercial Energy Efficiency Building Codes Taskforce Member, Energy Efficiency and Sustainable Development Taskforce Member, Subcommittee on Planning Commission Review Guidelines Member, Comprehensive Plan Subcommittee
   2004-2005 Committee member, Hamlet Study Plan, Town of Southold, NY

### University Service

# New York University

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2018-	Member, Exposome Research Initiative
2017-	Founding Member, Urban Research Working Group
2013-2015	Member, 370 Jay Street Project Team (Development of 460,000 sq.ft. CUSP space)
2012-2013	Member, Big Data and Data Science Academic Commission
2012-2013	Member, 1 Metrotech Center Project Team (Planning for 30,000 sq.ft. CUSP space)
2012-2013	Member, Media and Games Center Design Development Committee
2010-2013	Co-Chair, Green Building and Campus Planning Working Group
2008-2019	Faculty Advisor, NYU Sustainability Task Force
2008-2011	Member, Student Liaison Committee
2008-2010	Member, Faculty Research Grant Selection Committee

### New York University Center for Urban Science and Progress (CUSP)

- 2016-2017 Member, Urban Informatics Faculty Search Committee (One senior position)
- 2015-2017 Chair, MS in Urban Policy Analytics Curriculum Committee
- 2015-2016 Member, Urban Informatics Faculty Search Committee (Three senior positions)
- 2014-2017 Chair, Professor of Practice Search Committee (Two positions)
- 2013-2017 Co-Chair, CUSP Urban Informatics PhD Committee
- 2012-2018 Chair, Faculty Curriculum Committee
- 2010-2018 Member, Town + Gown Committee (NYC DDC)
- 2012-2013 Co-organizer, CUSP Partner Workshop

### New York University, Tandon School of Engineering, Department of Civil and Urban Engineering

2017-2018	Chair, Minor in Urban Informatics Curriculum Committee
2017-2018	Faculty Advisor, Vertically Integrated Projects (VIP) Research Program
2016-2019	Co-Chair, PhD in Urban Systems Curriculum Committee
2015-2017	Co-Chair, Urban Systems Engineering Program Committee
2014-2015	Member, Faculty Search Committee, CM/Environmental Engineering

### New York University Abu Dhabi

- 2015-2016 Member, Urban Systems & Informatics Faculty Search Committee
- 2011-2013 Member, Engineering Faculty Search Committee
- 2011-2012 Member, Urban Systems Curriculum Committee

### New York University, Schack Institute of Real Estate

2010-2014	Organizer/Faculty Advisor, Student Technical Assistance Program
2010-2012	Chair/Founder, NYU-SBE Graduate Student Competition
2010-2012	Member, Subcommittee on Technology and Innovation in Construction
2010-2012	Member, Editorial Board, NYU Schack Institute Journal
2010-2011	Faculty Advisor, REISA Entrepreneurship Group
2009-2014	Chair/Founder, Sustainability Speaker Series
2009-2014	Faculty Advisor, SBE Student/Alumni Advisory Board
2009-2013	Member, Graduate Student Scholarship Selection Committee
2009-2011	Co-Chair, M.S. in Real Estate Development Curriculum Committee
2009-2011	Faculty Advisor, Student Real Estate Competition Team
2008 2014	Construction Management Program Advisory Poord

2008-2014 Construction Management Program Advisory Board

### REFEREE

Energy Policy; Environment and Planning B: Urban Analytics and City Science; Urban Studies; Annals of the New York Academy of Sciences; Housing Policy Debate; Journal of Sustainable Real Estate; ACEEE Summer Study; Spatial Economic Analysis; Journal of Urbanism; Journal of Community Informatics; Journal of Urban Affairs; Emerald Group Publishing – Built Environment and Property Management Books; Journal of Urban Technology; Environment, Development, and Sustainability; Journal of Planning Education and Research; Computers, Environment, and Urban Systems; Sustainable Cities and Society; Landscape and Urban Planning; Energy and Buildings; Reliability Engineering and System Safety; ASCE Journal of Computing in Civil Engineering; Science of the Total Environment; International Journal of Disaster Risk Reduction; Environmental Science & Technology; Annals of the American Association of Geographers; Resources, Conservation & Recycling; British Medical Journal; ACM Transactions on Spatial Algorithms and Systems, Nature Cities, Nature Climate Change

# ACADEMIC/RESEARCH PRESS COVERAGE

- 1. CityLand, "City Receives Federal Grant to Help Support Carbon Emission Reductions in Large Buildings" (Sept. 18, 2024)
- 2. *Crain's New York Business*, "New York real estate soaring in value near Second Avenue Subway" (June 23, 2022).
- 3. *Yahoo! Finance*, "Researchers find neighborhood disparities in transmission risk of COVID-19" (Mar. 21, 2021)
- 4. *Amazon.science*, "National Science Foundation, in collaboration with Amazon, awards 11 Fairness in AI grant projects" (Feb. 10, 2021)

- 5. *Toronto Star*, "Smart City megaprojects get a lot of hype. So why do so many turn out to be expensive disappointments?" (Jan. 13, 2021)
- 6. *Toronto Star*, "Civic leaders have more data than ever to guide their decisions, but the tech is not in charge" (Jan. 9, 2021)
- 7. *Toronto Star*, "Smart Cities Will Be Cleaner, Accessible, Even More Democratic, Proponents Say. But Governments Adopting New Tech Must Contend with Risks, Too" (Jan. 4, 2021)
- 8. *Scientific American*, "Population Density Does Not Doom Cities to Pandemic Dangers" (Sept. 16, 2020)
- 9. Sidewalk Talk Q&A, "When It Comes to Affordability in Cities, Don't Forget about Utility Bills" (Sept. 10. 2020)
- 10. *Mother Jones*, "Here's Why Neighborhoods With More People of Color Pay Higher Energy Bills" (Nov. 28, 2019)
- 11. *CityLab*, "Neighborhoods With More People of Color Pay Higher Energy Bills" (Nov. 25, 2019)
- 12. Gothamist, "Here's How NYC Is Trying to Shrink Buildings' Big Carbon Footprints" (Sep. 19. 2019)
- 13. NYU Alumni Magazine, "Half Empty or Half Full?" (May 29, 2019)
- 14. *Fast Company*, "These 20 social enterprises and nonprofits just won Google's AI Impact Challenge" (May 7, 2019)
- 15. *Metropolis Magazine*, "Hudson Yards Promised a High-Tech Neighborhood—It Was a Greater Challenge Than Expected" (Feb. 5, 2019)
- 16. *CityLab*, "The Many Ways to Fund New York City's Big Subway Fix" (Jan. 2, 2019)
- 17. *Forbes*, "What Investors Should Know About Public Transportation's Effect On Manhattan Real Estate Value" (Nov. 27, 2018)
- 18. Urban Land Magazine, "The Developing Power of Big Data" (Oct. 29, 2018)
- 19. Smart Cities Dive, "The Data-Driven City" (June 14, 2018)
- 20. *Australian Broadcasting Corporation*, "Big data is going to shape our future cities. Will it treat us all equally?" (Mar. 14, 2018)
- 21. *Metropolis Magazine*, "As Technology Reshapes Cities' Economies and Daily Life, We Risk Widening Inequality" (Feb. 8, 2018)
- 22. *New York Times*, "The Subway is Next Door. Should New Yorkers Pay Extra for That?" (Jan. 29. 2018)
- 23. *Curbed New York*, "Could a Manhattan 'Transit Maintenance District' Fund Subway Repairs?" (Nov. 20, 2017)
- 24. *Crain's New York*, "Landlords Benefit from Subways. Two NYU Professors Calculated How Much That's Worth" (Nov. 17, 2017)
- 25. *NYU Tandon News*, "Constantine Kontokosta is on the Frontlines of Using Data for Good in Cities" (Nov. 9, 2017)
- 26. *City of New York, Office of the Mayor,* "De Blasio Administration and Brownsville Community Leaders Announce NYCx Co-Lab Challenges in Brownsville" (Oct. 23, 2017)
- 27. City of New York, Office of the Mayor, "Mayor Announces Dramatic Drop in Energy Use and Carbon Emissions in Large Buildings Citywide" (Oct. 19, 2017)
- 28. *amNY*, "Greenhouse Gases Cut by 14% Under City Buildings Plan, Report Says" (Oct. 19, 2017)
- 29. Habitat Magazine, "City's Co-ops and Condos Cut Energy Use and Emissions" (Oct. 19, 2017)
- 30. *GovTech*, "NYU Center for Urban Science and Progress Tackles Bus Reliability, Harmful Landlord Practices, with Data" (Sept. 8, 2017)
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- 32. *Education Dive*, "Urban informatics offers partnership opportunities between institutions, cities" (Aug. 15, 2017)
- 33. *City of New York, Office of the Mayor*, "De Blasio Administration Announces Launch of New Smart City Technologies and Young Innovators Program in Brownsville" (July 7, 2017)

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- 35. *Technical.ly Brooklyn*, "Why this NYU Tandon Prof is Mapping Out All of the Electricity Used in the City" (Mar. 31, 2017)
- 36. Washington Square News, "NYU Helps Open Neighborhood Innovation Labs" (Mar. 27, 2017)
- 37. Washington Square News, "Two Tandon Professors Win CAREER Awards" (Mar. 22, 2017)
- 38. *Brooklyn Daily Eagle*, "National Science Foundation recognizes 2 NYU Tandon professors for promising research in smart cities and smart transportation" (Mar. 16, 2017)
- 39. Forbes, Inc. "Smart Cities: The Solution to Our Urban Ills? (Mar. 1, 2017)
- 40. *The Stack*, "Monitoring New York Poverty with Urban IoT" (Sept. 29, 2016)
- 41. *Energy Manager Today*, "New York City Study Conclusion: Benchmarking Works" (Aug. 25, 2016)
- 42. *Realtor.com*, "Will the Olympics Rescue or Ruin Rio's Housing Market?" (Aug. 3, 2016)
- 43. *NPR*, "The Future of the Smart City" (June 23, 2016)
- 44. *Toronto Star*, "Our Data, Ourselves" (May 7, 2016)
- 45. The Economist, "How Cities Score," (Mar. 26, 2016)
- 46. Spacing Magazine, "Waiting for the Other Shoe to Drop on Inclusionary Zoning," (Mar. 21, 2016)
- 47. *Bisnow*, "Hudson Yards' Smart City Initiatives Could Provide Glimpse of NYC's Future," (Feb. 24, 2016)
- 48. *NYU News*, "At the Forefront of Urban Informatics, Constantine Kontokosta is Widely Recognized for his Pioneering Work," (Feb. 8, 2016)
- 49. *Observer*, "Data Shows the Way for New York's Greenhouse Gas Reductions," (Jan. 22, 2016)
- 50. *Commercial Observer*, "80/50 Vision: The Mayor's Bold Greenhouse Gas Reduction Plan," (Jan. 22, 2016)
- 51. *Building Design* + *Construction*, "Solving the Data Conundrum with Better Tools to Capture, Share, and Analyze Information," (Nov. 24, 2015)
- 52. Capital New York, "City Plans Innovation Labs Across Five Boroughs," (Sept. 15, 2015)
- 53. *FCW: Federal Technology*, "Machine learning, agency missions and finding the shape of the haystack," (July 21, 2015)
- 54. Capital New York, "NYU Research Center to Offer New Civic Data Program," (Apr. 29, 2015)
- 55. U.S. News and World Report, "The Next Silicon Valley?" (Apr. 1, 2015)
- 56. *National Geographic*, "What's the Big Deal with Big Data?" (Mar. 29, 2015)
- 57. Financial Times, "Olympic Task to Reinvent Tokyo's Heart" (Mar. 29, 2015)
- 58. Chicago Policy Review, "Why Inclusive Zones are Not Inclusive Everywhere" (Feb. 27, 2015)
- 59. San Francisco Business Times, "If San Francisco Wins Olympics Bid, Don't Expect Big Real Estate Benefits" (Jan. 7, 2015)
- 60. ASEE Prism Magazine, "Don't Miss a Beat" (December, 2014)
- 61. *The Atlantic: Citylab*, "Quantifying the Livable City" (Oct. 21, 2014)
- 62. Urban Land Magazine, "Hudson Yards Rises Above the Rails" (Oct. 6, 2014)
- 63. Globe & Mail, "How the Big Data Revolution Can Help Design Ideal Cities" (Sept. 25, 2014)
- 64. *CNN*, "Hey Internet, Where's My Talking City" (May 26. 2014)
- 65. *Engadget*, "New York's Next Big Neighborhood Is Its Smartest" (May 7, 2014)
- 66. Fortune, "In Brooklyn, A Grasp at Giving 'Big Data' Meaning" (Apr. 28, 2014)
- 67. Next City, "Hey Honey, Don't Tell the Neighbors I Left the Air Conditioning On" (Apr. 22, 2014)
- 68. *Fast Company*, "Beyond the Quantified Self: The World's Largest Quantified Community" (Apr. 17, 2014)
- 69. New York Times, "Huge New York Development Project Becomes Data Science Lab" (Apr. 14, 2014)
- 70. *Real Estate Weekly*, "Energy Executives Prepare to Take Stock at Annual NYU Conference" (Feb. 19, 2014)
- 71. *Canadian Consulting Engineer*, "New York City Research Finds Older Buildings More Energy Efficient" (Jan. 28, 2014)

- 72. Sallan Foundation, "We're Beginning to See the Light" (Jan. 27, 2014)
- 73. *AlleyWatch*, "3 Big Ideas to Change the City" (Oct. 31, 2013)
- 74. *Technal.ly Brooklyn*, "Cities are the Major Unit of Analysis for the Future: CUSP Dep. Director" (Oct. 14, 2013)
- 75. *EdTech Magazine*, "Big Data 101: How Higher Ed Is Teaching Data Science" (Oct. 9, 2013)
- 76. The Real Deal, "NYU, enviro group to monitor commercial tenants' energy use" (Aug. 13, 2013)
- 77. *Commercial Observer*, "NYU to Identify Energy-Efficient Commercial Real Estate Tenants" (Aug. 13, 2013)
- 78. CRE Radio, "Hot Topics in Green Building and Sustainability" (Apr. 19, 2013)
- 79. *The Real Deal*, "Big data can turn real estate industry on its head: A dispatch from NYU's Schack
- 80. Institute conference" (Feb. 22, 2013)
- 81. Physics, "A Different Kind of Impact Factor" (Dec. 19, 2012)
- 82. *Civil Engineering* (ASCE Magazine), "NYC Publishes First Energy Benchmark Report" (Sept. 18, 2012)
- 83. *The Wall Street Journal*, "Durst Tower to Give Green a New Shade" (Sept. 5, 2012)
- 84. The Wall Street Journal, "London Developers Hope for Olympic-Size Boom" (Aug. 15, 2012)
- 85. *Greentech Enterprise*, "Data Driving Investment, Scale in Energy Efficiency" (June 7, 2012)
- 86. *Examiner.com*, "Clean Energy Connections Discusses Intelligent Infrastructure" (June 7, 2012)
- 87. CNN Fortune, "London's Extreme Olympics Makeover" (June 1, 2012)
- 88. *The Villager*, "City O.K.'s Roof Rotors up to 55ft Tall for Buildings" (May 31, 2012)
- 89. *CoStar News*, "Financing Green Part II: The Role of Data in Financing Green Improvements" (May 21, 2012)
- 90. CoStar News, "Financing Green Part I: Funding Energy Efficient Retrofits and Overcoming Uncertainty" (May 18, 2012)
- 91. *Bloomberg News*, "London Shops Disappear as Olympics Pays \$1.2 Billion for Cycling" (Mar. 13, 2012)
- 92. *New York Observer*, "Transparently Green: Landlords, Tenants, Gear Up for Local Law 84" (Mar. 12, 2012)
- 93. *New York Observer*, "Olympics Not All It's Cracked Up to Be: Study" (Mar. 8, 2012)
- 94. Bloomberg News, "London's Poorest Area Waits for Olympics" (Mar. 1, 2012)
- 95. Bisnow, "Green is the New Value-Add" (Feb. 27, 2012)
- 96. *Newsday*, "Summit: Great Need for LI Housing Options" (Feb. 8, 2012)
- 97. Real Estate Weekly, "Schack Institute to Host Sustainability Conference" (Feb. 8, 2012)
- 98. *ArchitectureWeek*, "Urban Green Council Announces the EBies" (Jan. 23, 2012)
- 99. *The Real Deal*, "Sustainability 2.0" (December 1, 2011)
- 100. *Commercial Property Executive Magazine*, "Industry Innovators: CPE Executive of the Year, Rising Star" (Dec. 1, 2011)
- 101. Fortune Magazine, "Energy Efficiency: Plenty of Data: Many Confused Landlords" (Nov. 21, 2011)
- 102. *New York Real Estate Journal*, "NYU Schack Center for the Sustainable Built Environment Marks Milestone" (Oct. 25, 2011)
- 103. Commercial Property Executive Magazine, "Awards: Six Achievers Find Success Despite the Difficult Economy" (Oct. 10, 2011)
- 104. Bisnow, "Green Big Apple" (Sept. 12, 2011)
- 105. *CNN Money*, "Energy Efficiency Plan: Hire Someone Else to Pay the Bill?" (July 22, 2011)
- 106. New York House Magazine, "Q&A with Constantine Kontokosta" (July, 2011)
- 107. *National Real Estate Investor*, "Penn Students Take Top Prize in NYU Sustainable Competition" (May 9, 2011)
- 108. Green Real Estate Daily, "Expert Q&A" (May 1, 2011)

- 109. Commercial Property Executive Magazine, "10 Rising Stars in 2011" (April 22, 2011)
- 110. *Green Real Estate Daily*, "UNEP-SBCI and NYU Schack Institute's Center for the Sustainable Built Environment Forge New Partnership to Reduce the Global Carbon Footprint" (Mar. 4, 2011)
- 111. *The Capitol*, "Clean-Tech Job Growth Seen as Solution for State's Economic Development Mess" (Feb. 19, 2011)
- 112. China Civil Engineering Society, "How Sustainable is LEED?" (Jan. 5, 2011)
- 113. Crain's New York, "LEED, the Gold Standard for Green Buildings, Is under Fire" (Jan. 2, 2011)
- 114. NY Inc. Magazine, "Competition Heats Up" (Dec. 14, 2010)
- 115. The Real Deal, "Schools Adjust to Market, Too" (Nov. 1, 2010)
- 116. Commercial Mortgage Alert, "Task Force to Tackle Retrofit Loans" (Oct. 8, 2010)
- 117. *The Real Deal*, "Purchasing Power Changes Hands" (Aug. 1, 2010)
- 118. Commercial Mortgage Alert, "Race is On to Devise Way to Finance Retrofits" (July 16, 2010)
- 119. NY Inc. Magazine, "15 People You Need to Know in New York Real Estate" (June/July, 2010)
- 120. Bisnow, "Sustainability Scholars" (June 17, 2010)
- 121. New York Times, "Showing the Benefits of 'Green' Retrofits" (June 1, 2010)
- 122. *Globe Street*, "Standing on the Shoulders of Green Giants" (May 28, 2010)
- 123. Real Estate Bisnow, "The Deal Sheet" (May 11, 2010)
- 124. *Connecticut Post*, "Designs on the Future: Creative Concepts Flow for Pequonnock River Banks" (Feb. 24, 2010)
- 125. Portfolio.com, "Commercial Real Estate Loans Keep Dogging Banks" (Dec. 21, 2009)
- 126. Real Estate Weekly, "Schack Opens Sustainability Center" (Dec. 16, 2009)
- 127. *New York Times*, "Some of the Bright Lights of New York's Businesses Are Powered by Wind" (Apr. 21, 2009)

#### **PROFESSIONAL EXPERIENCE**

2000-	Real estate entrepreneur – completed land planning and real estate development projects in the affordable housing, agribusiness, hospitality, residential, and retail sectors.
1999-2000	Tishman Construction Corporation, New York, NY Project Manager/Project Engineer
1998-1999	Capital Trust, New York, NY (NYSE: CT) Financial Quantitative Analyst

### PROFESSIONAL LICENSES, CERTIFICATIONS AND MEMBERSHIPS

#### **Licenses and Certifications**

- Licensed Professional Engineer, New York State Department of Education
- Certified Planner, American Institute of Certified Planners (expired)
- LEED Accredited Professional, US Green Building Council (expired)

#### Memberships (not all current)

American Society of Civil Engineers, American Planning Association, American Real Estate and Urban Economics Association, National Society of Professional Engineers, New York Association for Energy Economics, Urban Affairs Association, Urban Land Institute