**CONSTANTINE E. KONTOKOSTA**
**Department of Civil and Urban Engineering &**
**Center for Urban Science and Progress**
**New York University**

## ACADEMIC AND LEADERSHIP POSITIONS

**Current**

| | |
|---|---|
| 2016- | Visiting Professor, Department of Computer Science, University of Warwick |
| 2016- | Director, Urban Intelligence Lab, New York University |
| 2014- | Assistant Professor of Urban Informatics (tenure-track, joint position), Department of Civil and Urban Engineering, Tandon School of Engineering and Center for Urban Science and Progress, New York University |
| 2012- | Deputy Director/Deputy Director for Academics, Center for Urban Science and Progress, New York University (*part of the Founding Leadership Team, launched 2012*) |
| 2014- | Head, Quantified Community Research Facility, Center for Urban Science and Progress, New York University |
| 2012- | Affiliated Faculty, Marron Institute on Cities and the Urban Environment, New York University |

**Previous**

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|---|---|
| 2009-2014 | Founding Director, Center for the Sustainable Built Environment, New York University |
| 2014-2016 | Head, Building Informatics Research Group, Center for Urban Science and Progress, New York University |
| 2013-2014 | Research Associate Professor, Department of Civil and Urban Engineering, NYU Polytechnic School of Engineering |
| 2012-2014 | Adjunct Associate Professor of Urban Planning, Wagner School of Public Service, New York University |
| 2011-2012 | Clinical Associate Professor, Schack Institute of Real Estate, New York University |
| 2008-2011 | Clinical Assistant Professor, Schack Institute of Real Estate, New York University |
| 2007-2008 | Adjunct Assistant Professor, Schack Institute of Real Estate, New York University |
| 2005-2008 | Faculty Fellow, Graduate School of Architecture, Planning, and Preservation, Columbia University |

## EDUCATION

| | | |
|---|---|---|
| 2011 | **PhD** | Columbia University, Urban Planning (Minor: Econometrics) |
| 2007 | **M.Phil** | Columbia University, Urban Planning |
| 2005 | **M.S.** | Columbia University, Urban Planning (Computational Methods) |
| 2003 | **M.S.** | New York University, Real Estate Finance and Economics |
| 1998 | **B.S.E.** | University of Pennsylvania, Systems Science and Engineering (Civil Infrastructure) |

## ACADEMIC HONORS AND FELLOWSHIPS

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|---|---|
| 2017 | National Science Foundation (NSF) CAREER Award |
| 2016 | Google IoT Research Award (with in-kind support) |
| 2015-2016 | Faculty Engineer in Residence, NYU Incubators (with in-kind support) |
| 2015 | Best Paper Award, Bloomberg Data for Good Symposium ($3,000) |
| 2014 | IBM Faculty Award ($40,000) |
| 2012 | Riverdale Country School, Alumni Recognition for Achievements in Science |

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|---|---|
| 2012 | Elected to Fellow of the Royal Institution of Chartered Surveyors |
| 2012 | Teaching Excellence Award, New York University (SPS) |
| 2011 | Commercial Property Executive, "10 Rising Stars to Watch" |
| 2010 | Outstanding Service Award, New York University (SPS) |
| 2010, 2012 | Climate, Buildings, and Behavior Scholarship, Garrison Institute ($1,000) |
| 2009-2014 | Fulbright Senior Specialist, J. William Fulbright Foreign Scholarship Board/CEIS |
| 2009-2010 | C. Lowell Harriss Dissertation Fellowship, Lincoln Institute of Land Policy ($20,000) |
| 2009-2010 | Dissertation Research Grant, Graduate School of Arts and Sciences, Columbia University ($7,500) |
| 2005-2010 | University Fellowship (5-year award), Graduate School of Arts and Sciences, Columbia University (full tuition and stipend for five years) |
| 2007-2009 | Housing and Community Development Research Fellow, Citizens Housing and Planning Council |
| 2007 | Graduate Student Scholarship, American Society of Civil Engineers / Engineers without Borders USA |
| 2006 | New Scholar Workshop, Journal of Planning Education and Research |
| 2005 | Charles Abrams Award for Social Justice Research Thesis, Graduate School of Architecture, Planning, and Preservation, Columbia University |
| 2001-2003 | Dean's Fellowship (multi-year, merit-based award), New York University |

## PUBLICATIONS

(underline denotes supervised student and *italics* denotes supervised research scientist/postdoc)

**Books**
1. **Kontokosta, Constantine E.** In contract. *Big Data and Sustainable Property Markets: Decision-Making in the Age of Informatics.* London: Routledge.

2. **Kontokosta, Constantine E.** and Colin Harrison, eds. 2017. *Urban Intelligence: How Data and Information Can Shape Urban Planning, Design, and City Operations*. New York: Routledge. (forthcoming).

**Peer-reviewed Journal Articles**
3. **Kontokosta, Constantine E.** and Awais Malik. Forthcoming. "The REDI Score: Applying Big Data to the Quantification and Validation of Neighborhood Resilience Capacity," *ASCE Journal of Infrastructure Systems.*

4. **Kontokosta, Constantine E.** and Nicholas Johnson. 2017. "Urban Phenology: Toward a Real-Time Census of the City using WiFi Data," *Computers, Environment, and Urban Systems*, *64*, 14-153.

5. **Kontokosta, Constantine E.** 2016. "Understanding the Energy Retrofit Decision in Commercial Office Buildings," *Energy and Buildings*, *131*, 1-20.

6. *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.

7. **Kontokosta, Constantine E.** 2016. "The Quantified Community: Connecting Big Data and Community Planning for Evidence-Based Decision-Making," *Journal of Urban Technology*, 1-18.

8.  **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*, forthcoming.

9.  **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.

10. **Kontokosta, Constantine E.** 2015. "Do Inclusionary Zoning Policies Disperse Affordable Housing? A Comparative Spatial Analysis," *Journal of Housing and the Built Environment.*

11. **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.

12. *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.

13. Fuerst, Franz, **Kontokosta, Constantine E.**, and McAllister, Patrick M. 2014. "Determinants of Green Building Adoption," *Environment and Planning B* 41: 551-570.

14. **Kontokosta, Constantine E.** 2014. Mixed-Income Housing and Neighborhood Integration: Evidence from Inclusionary Zoning Programs. *Journal of Urban Affairs*, 36: 716-741.

15. **Kontokosta, Constantine E.** 2013. "Energy Disclosure, Market Behavior, and the Building Data Ecosystem," *Annals of the New York Academy of Sciences* 1295: 34-43.

16. **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.

17. **Kontokosta, Constantine E.** 2012. "The Price of Victory: The Impacts of the Olympic Games on Residential Real Estate Markets," *Urban Studies* 49: 961-978.

18. **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*.

19. **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.

**Papers under review and in preparation**
20. Reina, Vincent and **Constantine E. Kontokosta**. "The Effects of Housing Subsidy Programs on Energy Efficiency" revise and resubmit.

21. **Kontokosta, Constantine E.** and Christopher Tull. "A Data-Driven Model of City-Scale Energy Use in Buildings," revise and resubmit.

22. Wang, Lingjing, Cheng Qian, **Constantine E. Kontokosta**, and Stanislav Sobolevsky. "Structure of 311 Requests as a Signature of Urban Location," revise and resubmit.

23. Kats, Phillip, Cheng Qian, **Constantine Kontokosta**, and Stanislav Sobolevsky, "Twitter Activity Timeline as a Signature of Urban Neighborhoods," under review.

24. **Kontokosta, Constantine E.** "Do Energy Disclosure Policies Work? Evidence from Mandatory and Voluntary Energy Reporting Programs," under review.

25. **Kontokosta, Constantine E.** and Yuan Lai. "Quantifying Place: Analyzing the Drivers of Pedestrian Activity at High Spatial Resolution," under review.

26. **Kontokosta, Constantine E.** and *Bartosz Bonczak*. "Using LiDAR to Measure Urban Morphology: Implications for Energy Efficiency" under review.

27. Johnson, Nicholas and **Constantine E. Kontokosta**. "Sensors for Monitoring Quality-of-Life Indicators in the Urban Environment," under review.

**Peer-reviewed Conference Proceedings**
28. Kontokosta, Constantine E. 2017. "Urban Informatics for Social Good," *Second International Workshop on Science of Smart City Operations and Platforms Engineering, Cyber Physical Systems Week*, Pittsburgh, PA.

29. *Kats, Phillip*, Cheng Qian, Sergey Malinchik, Mark Hoffman, Brian Kettler, **Constantine E. Kontokosta**, and Stanislav Sobolevsky. 2017. "Geo-tagged Social Media Data as a Proxy for Urban Population Mobility." *8th International Conference on Applied Human Factors and Ergonomics*, Los Angeles, CA.

30. Papadapoulos, Sokratis and **Constantine E. Kontokosta**. 2017. "Big Data and Big Buildings: Do Energy Disclosure Policies Impact Energy Use over Time?" *ASCE International Workshop on Computing in Civil Engineering*, Seattle, WA.

31. **Kontokosta, Constantine E.,** *Bartosz Bonczak*, and Sokratis Papadopoulos. 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. (abstract accepted; paper under review).

32. Awais Malik 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. (abstract accepted; paper under review).

33. **Kontokosta, Constantine E.** and Nicholas Johnson. 2017. "Understanding Neighborhood Dynamics Through Low-cost In-situ Sensing of the Urban Troposphere," *American Meteorological Society's 13th Symposium of the Urban Environment*.

34. **Kontokosta, Constantine E.** and *Bartosz Bonczak*. 2017. "Using LiDAR Point Cloud Data to Model and Measure Urban Morphology: An Informatics Approach to Building Volumetry," *Proceedings of the International Conference on Civil and Building Engineering Informatics*. (accepted, did not present)

35. **Kontokosta, Constantine E.**, Nicholas Johnson, 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*.

36. **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*.

37. **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 Bloomberg Data for Good Exchange*, New York, NY *(best paper award)*

38. *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.

39. **Kontokosta, Constantine E.** 2014. "Urban Quantified Community," *Proceedings of the NIST-ASCE-ASME Workshop on Sustainability Measurement Science*, Reston, VA

40. **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

41. **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*, Chicago, IL

42. **Kontokosta, Constantine E.** 2013. "Do Owners and Tenants Value Commercial Building Energy Performance?" *Massachusetts Institute of Technology-National University of Singapore-Maastricht Research Symposium*, Cambridge, MA

43. **Kontokosta, Constantine E.** 2012. "Predicting Energy Consumption in Commercial Buildings," *Proceedings of the American Council for an Energy-Efficient Economy*, *Summer Workshop*, Pacific Grove, CA

44. **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

45. **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*, the Netherlands

**Peer-reviewed Conference Presentations and Abstracts**
46. **Kontokosta, Constantine E.** 2017. "The Quantified Community," *American Planning Association*, National Planning Conference, New York, NY

47. **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*, Annual Research Conference, Washington, DC

48. **Kontokosta, Constantine E.** 2015. "Do Energy Disclosure Policies Drive Behavior Change?" *Association for Public Policy Analysis and Management*, Annual Conference, Miami, FL

49. **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,* Annual International Conference, Washington DC

50. **Kontokosta, Constantine E.** 2015. "Real Estate Informatics: Implications for Investment and Valuation," Homer Hoyt Institute, *Weimar School of Advanced Studies*, West Palm Beach, Florida

51. **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*, Annual Conference, Philadelphia, PA

52. **Kontokosta, Constantine E.** 2014. "Does Energy Disclosure Drive Efficiency?" *GreenBuild Annual Conference* (peer-reviewed research track), Philadelphia, PA

53. **Kontokosta, Constantine E.** 2014. "Urban Informatics and the Quantified Community," *Urban Systems Workshop*, Carnegie Mellon University, PA

54. **Kontokosta, Constantine E.** 2013. "Computational Approaches to Building Energy Data: Benchmarking, Incentives, and Market Behavior," *Center for Complexity in Business*, *5th Annual Conference*, University of Maryland, Washington, DC (accepted, unable to attend)

55. **Kontokosta, Constantine E.** 2013. "How Far Can 'Big Data' Take Us to Understanding Cities," *Santa Fe Institute*, Santa Fe, NM

56. **Kontokosta, Constantine E.** 2013. "Evaluating New York City's Energy Benchmarking Law," *GreenBuild Annual Conference* (peer-reviewed research track), Philadelphia, PA

57. **Kontokosta, Constantine E.** 2013. "Investment Performance and Energy Disclosure," *NCREIF Research Leadership Summit*, Chicago, IL

58. **Kontokosta, Constantine E.** 2013. "Urban Data Analytics," *Advanced Energy Conference*, Advanced Energy Research and Technology Center, New York, NY

59. **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*, Annual Meeting, San Diego, CA

60. **Kontokosta, Constantine E.** 2012. "Building the Smart City: Governance of Complex Urban Systems," *American Association of Geographers* Annual Conference, New York, NY

61. **Kontokosta, Constantine E.** 2011. "Developing Country GHG Baseline Reports," *United Nations Environment Progammme Symposium*, Philadelphia, PA

62. **Kontokosta, Constantine E.** 2011. "Getting to Scale: A Framework for an Energy Retrofit Market," *World Sustainable Building Conference (SB11)*, Helsinki, Finland (accepted, did not attend)

63. **Kontokosta, Constantine E.** 2011. "The City as Market-Maker: The Diffusion of Green Building Policies," *European Real Estate Society* Annual Conference, Eindhoven, The Netherlands

64. **Kontokosta, Constantine E.** 2011. **"**Taking the LEED? Analyzing Spatial Variations in Market Penetration Rates of Eco-Labeled Properties," *American Real Estate Society* Annual Conference, Seattle, WA

65. **Kontokosta, Constantine E.** 2010. "Spatial Patterns and Neighborhood Effects of Inclusionary Housing" *Association of Collegiate Schools of Planning*, Annual Conference, Minneapolis, MN

66. **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*, Annual Conference (invited), Sao Paulo, Brazil

67. **Kontokosta, Constantine E.**, Franz Fuerst, Patrick McAllister, and Tom Geurts. 2010. "Locational Determinants of Green Commercial Buildings," *European Real Estate Society* Annual Conference, Milan, Italy

68. **Kontokosta, Constantine E.** 2010. "Setting the PACE: Financial Mechanisms for Building Energy Retrofits," *American Real Estate Society*, Annual Conference, Naples, FL

69. **Kontokosta, Constantine E.** 2009. "Neighborhood Revitalization: Quantitative Indicators and Predictive Model," *Association of Collegiate Schools of Planning*, Annual Conference, Crystal City, VA

70. **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

71. **Kontokosta, Constantine E.** 2009. "The Impact of the Olympic Games on Foreign Direct Investment in Real Estate," *European Real Estate Society*, Annual Conference, Stockholm, Sweden

72. **Kontokosta, Constantine E.** 2009. "The Interaction Effects of Inclusionary Zoning and Land Use Regulations," *American Real Estate Society*, Annual Conference, Monterrey, CA

73. **Kontokosta, Constantine E.** 2009. "Inclusionary Zoning and Neighborhood Racial and Economic Transition," *Association of Collegiate Schools of Planning-Association of European Schools of Planning*, Joint Annual Conference, Chicago, Illinois

74. **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*, Annual Conference, Boston, MA

75. **Kontokosta, Constantine E.** 2007. "Inclusionary Zoning and Affordable Housing: A Private Solution to a Public Problem?" *Association of Collegiate Schools of Planning*, Annual Conference, Fort Worth, TX

76. **Kontokosta, Constantine E.** 2006. "Impacts of the Olympic Games on House Prices," *American Real Estate and Urban Economics Association*, Annual International Conference, Vancouver, Canada

**Book Chapters**

77. **Kontokosta, Constantine E.** 2017. "Well-Being in the Smart City: Measuring Air Quality through Urban Sensing," in *Data, Technology, and Life in the City*, André Corrêa d'Almeida, ed. New York: Columbia University Press.

78. **Kontokosta, Constantine E.** Forthcoming. "Analytics for Public Finance and Economic Development" in *Urban Intelligence: How Data and Information Can Shape Urban Planning, Design, and City Operations*. New York: Routledge.

79. **Kontokosta, Constantine E.** Forthcoming. "Data-Driven Urban Sustainability Policy and Planning" in *Urban Intelligence: How Data and Information Can Shape Urban Planning, Design, and City Operations*. New York: Routledge.

80. Harrison, Colin and **Kontokosta, Constantine E.** Forthcoming. "Introduction to Urban Information," in *Urban Intelligence: How Data and Information Can Shape Urban Planning, Design, and City Operations*. New York: Routledge.

81. **Kontokosta, Constantine E.** 2009. "Developer," in *Encyclopedia of Urban Studies.* Ed. Ray Hutchison.  Newbury Park, CA: Sage Publications.

**Technical Reports and Significant Other Publications**

82. 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.

83. **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.

84. **Kontokosta, Constantine E.** 2016. "Building Efficiency: The Case for Data and Cities," *Issues in Science and Technology*. Forum. Fall 2016.

85. **Kontokosta, Constantine E.** 2016. "Urban Informatics: An Emerging Field," *The Conversation,* forthcoming.

86. **Kontokosta, Constantine E.** 2016. "Urban Planning in the Informatics Age," *NYU Digital Humanities*, invited blog post.

87. **Kontokosta, Constantine E.**, Awais Malik, and Christopher Tull. 2015. *Spatial Analysis of Commercial Waste Haulers and Waste Generation Rates in NYC*. Report to the NYC Business Integrity Commission.

88. **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.

89. 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.

90. **Kontokosta, Constantine E.** 2015. "Data and the City: The Promise and Perils of Urban Informatics," *Sallan Foundation Snapshot*, July 7.

91. **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.

92. **Kontokosta, Constantine E.**, <u>Eduardo Franco</u>, and <u>Anjali Mehta</u>. 2015. *Tenant Star: Commercial Tenant Energy Performance Rating Model (Asset Manager Section).* Report to CB Richard Ellis, Real Green Research Challenge.

93. **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.

94. 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).

95. **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.

96. **Kontokosta, Constantine E.** 2013. *The Quantified Community: A Roadmap for a Fully Instrumented Eco-District*. New York, NY: NYU Center for Urban Science and Progress.

97. 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).

98. **Kontokosta, Constantine E.** 2013. *Local Law 84 Energy Benchmarking Data: 2$^{nd}$ Year Analysis*. Report to the New York City's Mayor's Office of Long-Term Planning and Sustainability. (Provided data analysis with David Hsu).

99. <u>Lester, Danielle</u>, <u>Kimberly Gift</u>, <u>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.

100. 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).

101. **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.

102. **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.

103. **Kontokosta, Constantine E.** 2012. "Leveraging Capital Markets for Energy Efficient Building Retrofits," *MODUS Americas (Journal of the Royal Institution of Chartered Surveyors),* May.

104. **Kontokosta, Constantine E.** 2012. "Market View: Building the Smart City," *Commercial Property Executive*, April.

105. **Kontokosta, Constantine E.** 2012. "Experts Q&A," *CoreNet Global Newsletter.* Winter.

106. **Kontokosta, Constantine E.** 2011. "The Emerging Market for Building Energy Retrofits: Navigating the Investment Frontier," *Real Estate Finance Intelligence*, August.

107. **Kontokosta, Constantine E.** 2011. "The Diffusion of Green Building Policies in U.S. Cities," *Premises (NYU Schack Institute Research Journal)* 1: 6-9.

108. **Kontokosta, Constantine E.**, Khadine Branford, Jerrod Delaine, Eric Duchon, Casey Noel, and Joe Stampone. 2011. *NYU LEED Pre-Certification and Multiple Building (Volume) Certification Analysis*. New York, NY: NYU Center for the Sustainable Built Environment.

109. **Kontokosta, Constantine E.** 2009. "The Neighborhood Revitalization Index," Citizens Housing and Planning Council White Paper.

110. **Kontokosta, Constantine E.** et al. 2009. *Suffolk County Planning Commission Guidelines*. Hauppauge, NY: Suffolk County Planning Department.

## RESEARCH GRANTS

| | |
|---|---|
| 2017-2022 | **PI**: CAREER: Urban Informatics for Smart, Sustainable Cities: Toward a Data-Driven Understanding of Metropolitan Energy Dynamics<br>Sponsor: **National Science Foundation**<br>Funding Amount: **$510,313** |
| 2017-2020 | **PI**: Smart & Connected Communities: The Quantified Community: A Data-Driven Understanding of Urban Social-Ecological-Technical System Dynamics<br>Sponsor: **National Science Foundation**<br>Funding Amount: **$1,000,000** (pre-proposal "encouraged" for full submission due 2/16/17) |
| 2017-2020 | **Co-PI**: Digital Urban Pulse through Mobile Device Data: Advancing Transportation Planning and Operations Models<br>Sponsor: **U.S. Federal Highway Administration**<br>Funding Amount: **$953,457 (pending)** |
| 2017-2020 | **Investigator**: C2SMART<br>Sponsor: **U.S. Department of Transportation**<br>Funding Amount: **$1,400,000 per year (up to 5 years)** |
| 2016-2018 | **PI**: Predictive Models for Urban Building Risk and Resilience<br>Sponsor: **AIG Science**<br>Funding Amount: **$160,000 (phase I)** |
| 2016-2018 | **Co-PI**: Economics Impacts of Smart City Technologies<br>Sponsor: **Future Cities Catapult**<br>Funding Amount: **$184,000** |
| 2016-2017 | **Co-PI**: UVNets: Urban Vulnerability Networks<br>Sponsor: **Lockheed Martin Corp.**<br>Funding Amount: **$85,000 (phase I)** |
| 2016-2018 | **PI:** Data-Driven Urban Sustainability and Climate Mitigation Policy<br>Sponsor: **New York City Mayor's Office of Sustainability**<br>Funding Amount: **$233,100** |

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| 2016-2018 | **PI:** Machine Learning and Big Data for Building Energy Informatics<br>Sponsor: **Siemens Corp.**<br>Funding Amount: **$140,000** |
| 2016 | **PI:** CommunitySense: Using IoT for Real-Time Citizen Science<br>Sponsor: **Google, Inc.**<br>Funding Amount: **$100,000 (in-kind equipment, devices, and software/cloud services)** |
| 2016-2018 | **PI:** Civic Analytics and Urban Data Science<br>Sponsor: **John D. and Catherine T. MacArthur Foundation**<br>Funding Amount: **$250,000** |
| 2016-2017 | **Co-PI**: Multilayered Social Media Urban Analytics System for Identifying Disruptions in NYC Local Urban Function<br>Sponsor: **University Research Challenge Fund, NYU**<br>Funding Amount: **$13,000** |
| 2015-2017 | **PI for NYU sub-award**: Big Data Hub – Northeast Region<br>Sponsor: **National Science Foundation**<br>Funding Amount: **$1,600,000; sub-award: $60,000** |
| 2015 | **PI**: Energy Performance Data Quality and Reliability Analytics,<br>Sponsor: **District of Columbia, District Department of Environment**<br>Funding Amount: **$68,839** |
| 2015-2017 | **Co-PI**: On-Call Management and Economic Development Consulting Services<br>Sponsor: **New York City Economic Development Corporation**<br>Funding Amount: N/A |
| 2015 | **PI**: The Quantified Community – Pilot Project on Pedestrian Mobility Tracking and Simulation<br>Sponsor: **Cybergrant Research Grant, Cisco Systems, Inc.**<br>Funding Amount: **$200,000 (Submitted)** |
| 2014-2016 | **PI**: Tenant Energy Performance Recognition and Rating Model and Analytics<br>Sponsor: **CB Richard Ellis Real Green Research Challenge Grant**<br>Funding Amount: **$138,942** |
| 2013-2015 | **PI**: Assessment of Economic Vulnerability and Investment Strategies for Coastal Communities<br>Sponsor: **New York State Office of Storm Recovery**<br>Funding Amount: Total grant, **$2,700,000; sub-award, $100,648** |
| 2013-2015 | **Investigator**: Urban Science and Informatics Research Planning Grant,<br>Sponsor: **Alfred P. Sloan Foundation**<br>Funding Amount: **$200,000** |
| 2013-2014 | **PI**: Sustainability Research Grant<br>Sponsor: **New York University**<br>Funding Amount: **$16,500** |
| 2013 | **PI**: The Quantified Community<br>Sponsor: **Grand Challenge Research Initiative, New York University**<br>Finalist |
| 2012 | **PI**: University Research Challenge Fund<br>Sponsor: **New York University**<br>Funding Amount: **$12,000** |
| 2012 | **PI**: Energy Performance, Asset Value, and Risk Exposure<br>Sponsor: **Real Estate Research Institute**<br>Funding Amount: **$12,000** |
| 2012 | **PI**: Research Grant, Sustainability Task Force<br>Sponsor: **New York University**<br>Funding Amount: **$11,500** |

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| 2011 | **PI**: Research Grant, Office of Sustainability |
| | Sponsor: **New York University** |
| | Funding Amount**: $9,500** |
| 2011-2013 | **PI**: Data, Sustainability, and Urban Property Markets |
| | Sponsor: **Royal Institution of Chartered Surveyors** |
| | Funding Amount: **$30,000** |
| 2011-2013 | **PI**: Global GHG Emissions, Climate Change, and the Buildings Sector |
| | Sponsor: **United Nations Environment Programme** |
| | Funding Amount: **$60,000, including in-kind** |
| 2010-2012 | **Co-PI**: NYC Urban Technology Innovation Center |
| | Sponsor: **New York City Economic Development Corporation** |
| | Funding Amount: **$250,000**; joint with City University of New York and Columbia University |
| 2009-2010 | **PI**: Research Grant, Sustainability Task Force |
| | Sponsor: **New York University** |
| | Funding Amount: **$26,000** |
| 2008-2010 | **PI**: Effects of Inclusionary Zoning on Neighborhood Racial and Economic Integration |
| | Sponsor: **U.S. Department of Housing and Urban Development** |
| | Funding Amount: **$25,000** |

## CURRICULUM LEADERSHIP & TEACHING

**Curriculum Leadership**
*Center for Urban Science and Progress*
**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. Expanded the program from 23 students in the first year to 88 students in the fourth year.

**MS in Urban Policy Analytics, NYU Center for Urban Science and Progress and NYU Wagner School of Public Service – Approved 2016. To be launched Fall 2018.** 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. Co-chaired curriculum committee with Ingrid Ellen and Mitchell Moss from NYU Wagner.

**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 for post-master's students.
**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*
**Concentration in Urban Informatics, MS in Urban Infrastructure Systems, NYU Tandon School of Engineering, Department of Civil and Urban Engineering.** Leading the development of an Urban Informatics concentration at the Department of Civil and Urban Engineering. The concentration brings data science and computational approaches to challenges of urban infrastructure management, planning, and investment.

**PhD in Urban Systems, NYU Tandon School of Engineering and NYU Center for Urban Science and Progress.** Developed proposal (currently in the approval process) with Professor Ilan Juran 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 systems analysis perspective.

*Schack Institute of Real Estate*
**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.

**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 data-driven approaches to urban sustainability.

**Concentration in Digital Design, MS in Real Estate, NYU Schack Institute of Real Estate. Launched Fall 2009.**

**Executive Education Programs in Green Building and Sustainability Analytics, NYU Schack Institute of Real Estate. Launched Fall 2009.**

## TEACHING EXPERIENCE

(*denotes new courses that I created)

*New York University*
*Department of Civil and Urban Engineering, Tandon School of Engineering*
**\*Urban Informatics for Smart, Sustainable Cities – SP17 (30 enrolled; max enrollment)** The course covers emerging models and systems approaches to the study of cities and the role of informatics and data technologies in addressing issues of sustainability and resilience, from both operational and long-term planning perspectives.

*Center for Urban Science and Progress*
**\*Civic Analytics and Urban Intelligence – FA15 (84 enrolled, two sections) (Instructor 4.6/5.0; Course 4.2/5.0)** This course introduces students to computational approaches to urban challenges through the lens of city operations, public policy, and urban planning. Students are exposed to a range of analytical techniques and methods from the perspective of urban decision-making.

**\*Urban Information and Community Technology for City Operations – FA13 (23 enrolled) (Instructor 4.6/5.0; Course 4.2/5.0;** *Highest ranked course at CUSP*) This course provides an overview of the role of information and communication technologies in urban operations and introduces students to

the full range of urban domains and their interactions. Specific attention is given to energy and building efficiency, transportation, public health and emergency response, waste, water and wastewater, and connectivity and how urban informatics can be used to improve operational and resource efficiencies.

**\*Foundations of Urban Science – FA13 (24 enrolled; team taught with Prof. Batty, West, Lobo, and Bettencourt), FA14 (56 enrolled) (Instructor 4.0/5.0; Course 3.7/5.0)** This course explores a systems approach (physical, economic, social, political, etc.) to the growth and decay of cities and describes emerging frameworks for a unified theory of city form and function. It discusses economic theories of the city and emerging models of city function, growth, and the dynamics of complex sociotechnical systems.

**\*Urban Science Intensive I: Applied Methods in Informatics – SP14 (23 enrolled)** The Intensive is a two-semester capstone sequence that is the experiential learning focus of the program. Its core is team-based work on a real-world urban problem, combining problem identification and evaluation, data collection and analysis, data visualization and communication, and finally, solution formulation and testing. Students work on integrated teams with Agency and Industry Partners, immersed in the public aspects of the project.

**\*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 – FA11 (21 enrolled), SP12 (19 enrolled), SP10 (16 enrolled), FA09 (13 enrolled) (*Top 5% ranked course at Schack Institute each semester*)** This course is an in-depth look at entrepreneurship in urban development, covering all aspects of the entrepreneurial process from product development and strategy formulation to exit strategies and growth. Specific focus is placed on technological innovation and technology-related entrepreneurship.

**\*Sustainable Development Thesis Capstone – FA11 (6 enrolled), SP12 (2 enrolled)** An advanced thesis course in sustainable development in cities.

**\*Green Building and Sustainable Development – FA10 (12 enrolled), SP09 (13 enrolled)** This course provides an advanced introduction to green building and sustainability in urban planning and development, focusing on issues of environmental responsibility and social equity.

**The Development Process – FA09 (21 enrolled), SP09 (19 enrolled), FA08 (20 enrolled), SP08 (21 enrolled), FA07 (21 enrolled)** Course covers the financial, legal, regulatory, design, and management aspects of complex urban development.

**\*Land Use and Environment Regulation – FA08 (22 enrolled)** Course covers the legal and regulatory context of land use and environmental conservation.
**\*International Programs**
- Berlin, Germany, International Real Estate Development, in partnership with TU Berlin

*Columbia University, Graduate School of Architecture, Planning, and Preservation*
*(as Faculty Fellow)*
- **Advanced Quantitative Analysis** (Section Instructor)
- **Urban Planning Theory** (Section Instructor)
- **Mega-Events and Urban Development**

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- **Analytical Methods for Project and Program Evaluation**
- **Urban Economics**
- **Urban Redevelopment Policy**

## ADVISEMENT (while at CUSP/SOE)

**Post-doctoral Associates**
1. Martin Traunmueller, PhD in Computer Science, University College London (2016-)
2. 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)
3. Daniel Marasco, PhD in Civil Engineering, Columbia University (2014-2015; currently AAAS Science & Technology Policy Big Data Fellow)
4. 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 Candidates – as Advisor**
1. Nicholas Johnson (2015-), Computer Science; Joint between Warwick University Computer Science Department and CUSP, New York University
2. Awais Malik (2014-), Urban Systems; Joint between Department of Civil and Urban Engineering and CUSP, New York University
3. Sokratis Papadopoulos (2016-), Building Informatics; Joint between Department of Civil and Urban Engineering and CUSP, New York University
4. Yuan Lai (2016-), Urban Informatics; Joint between Department of Civil and Urban Engineering and CUSP, New York University

**PhD Candidates – as Committee Member, Reader**
1. Samaneh Gholitabar (2015-), *Using Big Data to Understand Urban Wind Dynamics*, Department of Civil and Urban Engineering, NYU Tandon School of Engineering
2. Frank DarConte (2013-2017), *Construction Management Analytics*, Department of Civil and Urban Engineering, NYU Tandon School of Engineering

**Research Scientists**
1. Bartosz Bonczak (2015-)
2. Boyeong Hong (2016-)

**Master's Students – Graduate Research Assistants Funded and Supervised**
1. Anastasiya Shegay, CUSP, 2016-2017
2. Ekaterina Levitskaya, CUSP, 2016-2017
3. Tashay Green, CUSP, 2016-2017
4. Kristin Korsberg, CUSP, 2016-2017
5. Geoff Perrin, CUSP, 2016-2017
6. Xinshi Zheng, CUSP, 2016-2017
7. Ian Wright, CUSP 2016-2017
8. Ian Stuart, CUSP, 2016-2017
9. Eren Con, CUSP, 2016
10. Philipp Kats, CUSP, 2016
11. Max Feinglass, CUSP, 2015-2016
12. Adhlere Coffey, CUSP, 2015-2016

13. Yuan Lai, CUSP, 2015-2016
14. Arno Amabile, CUSP, 2015-2016
15. Diego Garzon, CUSP, 2015
16. Eduardo Franco, CUSP, 2014-2015
17. Anjali Mehta, CUSP, 2014-2015
18. Christopher Tull, CUSP, 2014-2015
19. David Marulli, CUSP, 2014-2015
20. William Vidal, NYU Wagner, 2013-2015
21. Patrick Atwater, CUSP, 2014-2015
22. Maha Yaqub, CUSP, 2014-2015
23. Hassan Mohanna, CUSP, 2013-2014
24. Schuyler Poukish, CUSP, 2013-2014

**Master's Students - Research Theses and Capstone Projects Supervised**
1. Alejandro Porcel, Tengfei Zhenga, Maria Ortiz, Jonathan Grundy, Eren Con, and Clayton Hunter, Summer 2016, *Urban Sensing in Low-Income Communities*
   Sponsor: *Red Hook Initiative*
2. Daniel Starobin, Spring 2016, *Developing a Block Face-Aggregated Residential Solid Waste Generation Model*
   Sponsor: *New York City Department of Sanitation*
3. Maha Yaqub, Christopher Tull, and Rongqi Sun, Summer 2015, *Data-Driven Modeling of Urban Energy Use for Sustainability Planning*
   Sponsor: *New York City Mayor's Office of Sustainability*
4. Richard Dunks, Summer 2014, *Data Integration of Sensor and Administrative Records and Visualization of Water Street*
   Sponsors: *New York City Economic Development Corporation and Alliance for Downtown NY*
5. Amir Beshay, Winnie Kaaria, and Kathrine Elliott, Summer 2014, *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*
6. Jane Adams, Haozhe Wang, Ling Zhou, and Miguel Castro, Summer 2014, *Predicting the Adoption of Residential Energy Retrofits through Energy Audits*
   Sponsor: *New York State Energy Research and Development Authority (NYSERDA)*
7. Hassan Mohanna, Jeongki Lim, and Schuyler Poukish, Summer 2014, *Mobility and Behavior in Urban Environments Using Multiple Sensing Modalities*
   Sponsors: *Related Companies, Intersection, and Cisco Systems, Inc.*

## CONFERENCES AND SYMPOSIA ORGANIZED

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| 2017 | **Panel Chair**, "Urban Computing and the Quantified Community", American Planning Association, National Planning Conference, New York, NY |
| 2017 | **Technical Program Committee**, Science of Smart City Operations and Platform Engineering (SCOPE), NIST Global Cities Team Challenge, 2nd Annual Conference, 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 |

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| 2015 | **Technical Program Committee**, ACM BuildSys Conference 2015, Seoul, South Kora |
| 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", NYU Center for the Sustainable Built Environment, Annual Conference |
| 2014 | **Panel Chair**, "Urban Sustainability and Big Data", The Energy Wise City Conference, NYU Center for Global Affairs |
| 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 |
| 2013 | **Chair**, Building Informatics Research Workshop, NYU Center for Urban Science and Progress |
| 2013 | **Chair**, "Big Data and Disruptive Innovation: Is the Real Estate Industry Next?", Conference, NYU Center for the Sustainable Built Environment, Annual Conference |
| 2013 | **Organizing Committee**, "From the Outside In: Sustainable Futures for Global Cities and Suburbs", Hofstra University |
| 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 |
| 2012 | **Chair,** "Energy Performance, Risk, and Real Estate Capital Markets: Searching for Common Metrics", NYU Center for the Sustainable Built Environment, Annual Conference |
| 2012 | **Co-Chair**, Urban Systems Collaborative 2nd Annual Symposium, Co-Chair, UC Berkeley |
| 2011 | **Chair,** "Building the Smart City: Removing Barriers, Fostering Innovation" Chair, NYU Center for the Sustainable Built Environment, Annual Conference |
| 2011 | **Co-Chair**, Urban Systems Collaborative 1st Annual Symposium, Co-Chair, New York University |
| 2011 | **Chair**, "The Real Estate Industry's Perspective on Green Building Technologies", NYC Urban Technology Innovation Center Symposium |

## KEYNOTE PRESENTATIONS AND INVITED RESEARCH TALKS (from 2010)

**Keynotes**
1. Ernst & Young, Annual Meeting, New York, NY, 2017
2. CoreNet Global, Executive Leadership Council and Summit, Philadelphia, PA, 2016
3. Hellenic American Chamber of Commerce, Distinguished Lecture Series, New York, NY, 2016
4. Bisnow, Future of Real Estate Conference, New York, NY 2016
5. UN-HABITAT III, Prague, Czech Republic, 2016 (invited)
6. CoreNet Global, Real Estate Technology Symposium, New York, NY 2016
7. Thornton Tomasetti, CORE Studio, Architecture, Engineering, and Construction Technology Symposium, New York, NY 2015
8. Academy of Arts and Sciences, Philanthropic Leadership Symposium, 2015
9. "Big Data and New Measures of Building Performance," Urban Land Institute Sustainability Workshop, New York, NY, 2014
10. "America's Urban Future," VERGE Salon: Next-Gen Buildings and Cities, New York, NY, 2014
11. "The Economics of Green Buildings," Appraisal Institute Annual Conference, New York, NY, 2014
12. "Data Analytics for Urban Energy Dynamics," Energy Benchmarking 2.0 Symposium, City of Seattle and the Institute for Market Transformation, Washington, DC, 2014
13. ARUP, Big Data Symposium, New York, NY, 2013

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14. NYC DataWeek, New York, NY, 2013
15. "Data in the Global Metropolis: How the data age will shape the future of city building," CityAge: The Global Metropolis, New York, NY, 2013
16. American Society of Engineering Education, Engineering Deans Institute, New York, NY, 2013
17. "Individual Behavior and Collective Action: Achieving Long-Term Sustainability through Better Buildings," Garrison Institute, Climate, Buildings, and Behavior Symposium, Garrison, NY, 2012
18. GoGreen Conference, New York, NY, 2012
19. "Data-Driven City Operations for Sustainability," Cisco China City Leaders Program, New York, NY, 2012
20. Intelligent Infrastructure, Clean Energy Connections: SolarOne, NYC ACRE, and Urban Future Lab, New York, NY, 2012
21. "The Emergence of Urban Science," Riverdale Country School, Bronx, NY, 2012
22. "Social Equity and Low-Income Housing Policy," Long Island Housing Summit, Brookhaven National Labs, Brookhaven, NY, 2012
23. Hofstra University, Breslin Center Annual Conference, Hempstead, NY, 2011
24. Architecture for Humanity, Fall Humanitarian Design Conference, New York, NY, 2011
25. Keynote, The New Downtown Conference, New York, NY, 2011
26. Council of Urban Professionals, Distinguished Leadership Series, New York, NY, 2011
27. UN Global Forum on Human Settlements, New York, NY, 2011
28. CoreNet Global, Sustainability Summit, New York, NY, 2011
29. United Nations Environment Programme, Sustainable Buildings and Climate Initiative Symposium, Shanghai, China, 2010
30. Molloy College, Clean Energy Task Force, Farmingdale, NY, 2010
31. Long Island Association, Board of Directors Meeting, Melville, NY, 2010
32. Long Island Association, Annual Conference, Melville, NY, 2010

**Invited Research Talks and Seminars**
33. Urban Design Forum, Forefront Fellows Program, *Urban Experience Design*, New York, NY 2017
34. New York University, Stern School of Business, Center for Real Estate Finance, Annual Spring Symposium, New York, NY, 2017
35. Harvard University, Center for Public Leadership, Boston, MA, 2017
36. Kohn Pederson Fox, *Making Cities Smarter: Using Data to Shape NYC*, New York, NY, 2017
37. National Academy of Sciences, Committee on Applied and Theoretical Statistics, Washington, DC, 2016
38. Columbia University, Urban China Forum, New York, NY, 2016
39. University of North Carolina at Chapel Hill, Kenan-Flagler Business School, 2016
40. New York University, Furman Center for Real Estate and Urban Policy, 2016
41. American Institute of Architects (AIA-NY), 2016
42. Central European University Business School, 2016
43. New York City Department of Parks and Recreation, Parks without Borders Summit, New York, 2016
44. New York City Economic Development Corporation, 2016
45. Columbia University, Graduate School of Architecture, Planning, and Preservation, 2016
46. Massachusetts Institute of Technology, Urban Physics Workshop, 2016
47. New York University, Tandon School of Engineering, Dean's Research Seminar, 2016
48. New York Association for Energy Economics, 2016
49. Columbia University, Sabin Center, and Sallan Foundation, Benchmarking Symposium, New York, NY, 2015
50. New York University, Stern School of Business, and Bloomberg LP Real Estate and Infrastructure Symposium, New York, NY, 2015
51. U.S. Department of Energy and Pacific Northwest National Lab, Washington, DC, 2015

52. Lviv Business School, Lviv, Ukraine, 2015
53. NIST-ASCE-ASME Workshop on Economics of Community Disaster Resilience, Washington, DC, 2015
54. Harvard University, Graduate School of Design, Boston, MA, 2014
55. EcoDistricts, Annual Summit, Washington DC, 2014
56. ETH-Zurich, Future Resilient Cities Symposium, New York, NY, 2014
57. U.S. Department of Energy, Better Buildings Summit, Washington DC, 2014
58. Sloan and MacArthur Foundations, Urban Science Convening, New York, NY, 2014
59. American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE), Winter Meeting, New York, NY, 2014
60. New York University, Center for Global Affairs, The Measured City Conference, New York, NY, 2013
61. Columbia University, National Science Foundation IGERT Doctoral Seminar, New York, NY, 2013
62. City University of New York (CUNY), New York, NY, 2013
63. ONE Lab, Summer Design Program, New York, NY, 2013
64. IBM, Smarter Cities Technical Community Seminar, New York, NY, 2013
65. New York University, Institute for Public Knowledge, New York, NY, 2013
66. New York University, Stern School of Business, Center for Real Estate Finance Research Symposium, New York, NY, 2013
67. New York University, Wagner School of Public Service, New York, NY, 2013
68. The Brookings Institution, Washington, DC, 2013
69. American-Scottish Foundation, Energy Forum, New York, NY, 2013
70. New York University, Wallerstein Collaborative for Urban Environmental Education, New York, NY, 2013
71. The New School, Center for New York City Affairs, New York, NY, 2013
72. UC-Berkeley, Urban Systems Collaborative Annual Symposium, San Francisco, CA, 2012
73. Urban Systems Collaborative, Seminar Series, New York, NY, 2012
74. New York University, Wallerstein Collaborative for Urban Environmental Education, New York, NY, 2012
75. Abu Dhabi Urban Planning Council, New York University, New York, NY, 2012
76. Istanbul Metropolitan Municipality, New York University, New York, NY, 2012
77. New York University, Schack Institute of Real Estate, Sustainability Speaker Series, New York, NY, 2012
78. New York University, Stern School of Business, Urbanization Project Seminar Series, New York, NY, 2012
79. New York Academy of Sciences, Condensed Matter Physics Meeting, New York, NY, 2012
80. Chinese Ministry of Water Resources, New York, NY, 2012
81. Royal Institution of Chartered Surveyors, Annual Summit, Miami, FL, 2012
82. IBM Research and Ireland IDA, Yorktown, NY, 2012
83. New York Academy of Sciences, Implications of a Data-Driven Built Environment Symposium, New York, NY, 2012
84. University of Amsterdam, Amsterdam, The Netherlands, 2012
85. Urban Systems Symposium, Chicago, IL, 2012
86. Clinton Global Initiative, Winter Meeting, New York, NY, 2012
87. New York University, Wagner School of Public Service, New York, NY, 2012
88. Urban Systems Collaborative, Annual Symposium, New York, NY, 2011
89. Ecole Hoteliere Lausanne and New York University, Tisch Center, New York, NY, 2011
90. U.S. Department of Energy, New York, NY, 2011
91. Clinton Global Initiative, New York, NY, 2011
92. New York City Urban Technology Innovation Center, New York, NY, 2011

93. Columbia University, Graduate School of Architecture, Planning, and Preservation, New York, NY, 2011
94. Advanced Energy Conference, Stonybrook University, New York, NY, 2010
95. New York Wastewater Infrastructure Summit, Hauppauge, NY, 2010
96. Suffolk County Planning Federation Conference, Brookhaven National Labs, NY, 2010
97. University of Amsterdam Exchange Program (at NYU), 2010
98. Columbia University, Graduate School of Architecture, Planning, and Preservation, New York, NY, 2010
99. New York University, Environmental Studies Program, New York, NY, 2010
100. New York University, Polytechnic Institute and NYC ACRE, New York, NY, 2010
101. New York University, Stern School of Business, New York, NY, 2010
102. New York University, Center for Advanced Digital Applications, New York, NY, 2010

## LEADERSHIP AND SERVICE

### Boards, Advisory Committees, and External Service

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|---|---|
| 2016- | Member, Expert Advisory Group, Future Cities Catapult |
| 2016- | Member, University of North Carolina – Kenan Flagler Business School Commercial Real Estate Data Initiative |
| 2016-2017 | Member, Data into Action Advisory Group, Building Energy Exchange |
| 2016 | Site Visit Review Team, National Science Foundation Engineering Research Center (ERC) |
| 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, U.S. Department of Defense, Army Research Office |
| 2016 | External Grant Reviewer, City University of New York (CUNY), PSC-CUNY Research Award Program |
| 2015- | Member, Steering Committee, NSF Big Data Hub – Northeast Region |
| 2015- | Editorial Board, *Journal of Sustainable Real Estate* |
| 2015-2016 | Member, New York State Regional Economic Development Council, Smart City Working Group |
| 2015- | Member, ASCE Infrastructure Resilience Division, Risk and Resilience Measurements Committee |
| 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, Garrison Institute, Climate, Mind, and Behavior Initiative |
| 2012-2013 | Appointed member, New York City Mayor's Office 80x50 Long-Term Sustainability Plan Task Force |
| 2012-2013 | Juror, Urban Green Council, Green Existing Building Award |
| 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, Washington, DC |
| 2011-2012 | Board of Advisors, United Nations Environment Programme, Sustainable Buildings and Climate Initiative (Elected) |
| 2011-2012 | Appointed member, New York City's Mayor's Advisory Committee on Local Law 87 Energy Audits |
| 2011-2012 | Appointed member, Advisory/Selection Committee, New York City Council Municipal Entrepreneurial Testing System (METS) |
| 2011 | Juror, Annual Real Estate Transactions Award, Commercial Property Executive Magazine |
| 2010-2012 | Member, Clean Energy Leadership Task Force, Sustainability Institute, Molloy College, Islandia, NY |
| 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 |
|  | Member, Economic Development Subcommittee |
| 2004-2005 | Committee member, Town of Southold Hamlet Study Plan, Southold, NY |

**University Service**
*New York University*

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|---|---|
| 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- | 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)*

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|---|---|
| 2016-2017 | Member, Urban Informatics Faculty Search Committee (One senior position) |
| 2015- | 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- | Co-Chair, CUSP Urban Informatics PhD Committee |
| 2010- | Member, Town + Gown Committee (NYC DDC) |
| 2012- | Chair, Faculty Curriculum Committee |
| 2013 | Chair, Building Informatics Research Workshop |

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| 2013 | Chair, Quantified Community Workshop |
| 2012-2013 | Co-organizer, CUSP Partner Workshop |

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

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| 2017- | Faculty Advisor, Vertically Integrated Projects (VIP) Research Program |
| 2016- | Co-Chair, PhD in Urban Systems Curriculum Committee |
| 2015- | Co-Chair, Urban Systems Engineering Program Committee |
| 2014-2015 | Member, Faculty Search Committee, Construction Management/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 |
| 2009-2014 | Chair/Founder, Sustainability Speaker Series |
| 2009-2014 | Faculty Advisor, SBE Student/Alumni Advisory Board |
| 2008-2014 | Construction Management Program Advisory Board |
| 2009-2013 | Member, Graduate Student Scholarship Selection Committee |
| 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 |
| 2009-2011 | Co-Chair, M.S. in Real Estate Development Curriculum Committee |
| 2009-2011 | Faculty Advisor, Student Real Estate Competition Team |

## REFEREE

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18. *Financial Times*, "Olympic Task to Reinvent Tokyo's Heart" (Mar. 29, 2015)
19. *Chicago Policy Review*, "Why Inclusive Zones are Not Inclusive Everywhere" (Feb. 27, 2015)
20. *San Francisco Business Times*, "If San Francisco Wins Olympics Bid, Don't Expect Big Real Estate Benefits" (Jan. 7, 2015)
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24. *Globe & Mail*, "How the Big Data Revolution Can Help Design Ideal Cities" (Sept. 25, 2014)
25. *CNN*, "Hey Internet, Where's My Talking City" (May 26. 2014)
26. *Engadget*, "New York's Next Big Neighborhood Is Its Smartest" (May 7, 2014)
27. *Fortune*, "In Brooklyn, A Grasp at Giving 'Big Data' Meaning" (Apr. 28, 2014)
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30. *New York Times*, "Huge New York Development Project Becomes Data Science Lab" (Apr. 14, 2014)
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32. *Canadian Consulting Engineer*, "New York City Research Finds Older Buildings More Energy Efficient" (Jan. 28, 2014)
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## PROFESSIONAL EXPERIENCE

2000-2013     The KACE Group, New York, NY
*Founder and Principal*
KACE is an entrepreneurial real estate investment and management firm that delivers innovative products that balance equity, sustainability, and growth. As Founding Principal, I am responsible for strategic management of a substantial portfolio of properties and companies across real estate sectors. The firm also provides engineering, planning, and economic analysis consulting services. KACE and its affiliates have designed, developed, and currently manage and own affordable housing, hospitality, commercial, and mixed-use projects. The firm incorporates innovative sustainable design and construction methods into its projects, achieving LEED certification, carbon-neutrality, and maximum energy efficiency. Selected projects and entrepreneurial ventures:

- ***The Harborfront Inn at Greenport*** - 40,000 sq.ft. boutique hotel built using prefabricated construction technology (Completed 2004)
- ***The Kontokosta Winery*** - 15,000 sq.ft building and 62 acre vineyard designed to achieve LEED Gold certification and an Energy Star label (Completed 2012)
- ***Splitrock Vineyard Management*** – Agricultural management firm (five vineyards under management) (Launched 2005)
- ***Cove Place Inn*** - 20,000 sq.ft. boutique hotel renovated and re-positioned (Completed 2010)
- ***KACE Hospitality Management*** – Hotel management firm (two hotels under management) (Launched 2004)
- ***Northwind Village*** - 128-unit mixed-income affordable and market-rate multi-family development (Approval process completed 2011)
- ***The Galleria*** - 10,000 sq.ft. mixed-use retail/residential building (Completed 2006*)*
- Numerous renovations of ***historic townhouses*** in New York City (2003-2015)

1999-2000     Tishman Construction Corporation, New York, NY
*Assistant Project Manager/Project Engineer*
Project manager for the renovation of Tishman Realty & Construction Corp.'s executive offices (45,000 sq.ft., $6M+ budget) at 666 Fifth Avenue. Project engineer for the development of a new 1.1M square-foot ($300M+ budget) office building at 745 Seventh Avenue. Acted as technical liaison between contractors and engineers, architects, and Tishman personnel.

1998-1999     Capital Trust, New York, NY (NYSE: CT)
*Finance Quantitative Analyst*

Real estate investment bank and finance company. Performed due diligence and risk analysis for the origination of mezzanine loans and the acquisition of commercial mortgage-backed securities.

## PROFESSIONAL LICENSES, CERTIFICATIONS AND MEMBERSHIPS

**Licenses and Certifications**
- Licensed Professional Engineer, New York State Department of Education
- Certified Planner, American Institute of Certified Planners
- LEED Accredited Professional, US Green Building Council
- Fellow, Royal Institution of Chartered Surveyors

**Memberships**

American Society of Civil Engineers, American Planning Association, American Real Estate and Urban Economics Association, American Real Estate Society, National Society of Professional Engineers, New York Association for Energy Economics, Urban Affairs Association, Urban Land Institute, Urban Land Institute NY Sustainable Building Council, U.S. Green Building Council - New York Chapter Member

## PROFESSIONAL SKILLS

**Languages**

Greek: intermediate reading, writing, and conversation
French: elementary reading, writing, and conversation

**Relevant Computing Skills**

AutoCAD, ArcGIS, SPSS, STATA, SAS, STAAD-III, Primavera, ARGUS, Python, MatLab, CartoDB, Hadoop, and R

Constantine E. Kontokosta
January 2017