

Nikhil Kaza

February 28, 2017

Education

- May '08 • **Ph.D. in Regional Planning**, University of Illinois at Urbana Champaign
- May '07 • **M.S. in Applied Mathematics**, University of Illinois at Urbana Champaign
- May '04 • **M.U.P. in Urban Planning**, University of Illinois at Urbana Champaign
- Jun '01 • **B.Arch.(Hons.) in Architecture**, Indian Institute of Technology at Kharagpur, India

Professional Experience

- Jul'15 - present • Associate Professor & Associate Chair, Dept. of City & Regional Planning, University of North Carolina at Chapel Hill
- Jul'09 - Jun'15 • Assistant Professor, Dept. of City & Regional Planning, University of North Carolina at Chapel Hill
- Jan'13 - present • Research Fellow, Center for Community Capital
- Jan'12 - present • Adjunct Assistant Professor, Curriculum of Environment and Ecology
- Jan'11 - present • Fellow, Institute for the Environment
- Jul'09 - present • Faculty Fellow, Center for Urban and Regional Studies
- Jan'08 - Dec'08 • Sustainability Systems Modeller, EDAW Inc., Irvine CA
- Nov'07 - Jun'09 • Post doctoral fellow, National Center for Smart Growth Education & Research, University of Maryland at College Park

Bibliography

Book Chapters

- 2011 • Kaza, N. and G. Knaap, Principles of Planning for Economists, K. Donaghy, N. Brooks, G. Knaap (eds.) *Oxford Handbook of Economics and Planning*. Chap 2. 29-50, New York, NY: Oxford University Press
- 2007 • Kaza, N., and L. D. Hopkins, Ontology for Land Development Decisions and Plans. In *Ontologies for Urban Development*, ed(s). J. Teller, J. Lee, and C. Roussey, Chap 5, 47–59, Studies in Computational Intelligence series, Berlin: Springer-Verlag.
- 2005 • Hopkins, L. D., N. Kaza, and V. G. Pallathucheril, A Data Model to Incorporate Plans and Regulations in Urban Simulation Models. In *GIS, Spatial Analysis and Modeling* ed(s). D.G. Maguire, M. Batty, and M. Goodchild, Chap 7, 173–202, Redlands, CA: ESRI Press.

Refereed Articles

- In review • Kaza, N., J. Reyes, D. A. Rodriguez, M. L. Serre and H. Taubenböck. Urban change and PM 2.5 in cities *Proceedings of National Academy of Sciences*
- Lester, T.W., Kaza, N., Splintered Metropolitan Opportunity? Re-Examining the Relationship between Suburban Employment Centers and Inner City Job Opportunity *Landscape and Urban Planning*

Bibliography (contd.)

- 2017 • Qiu, S. and N. Kaza. Evaluating the Clean Cities Program *Science of the Total Environment* 579:254-262
- 2016 • Hartley, D., N. Kaza and T. W. Lester. Explaining the Drivers of Inner-City Job Growth: Evidence from the 2000s. *Economic Development Quarterly* 30(2):137-158
- Kaza, N., C. Tian, S. F. Riley and R. G. Quercia. Location Efficiency and Mortgage Risks for Low-Income Households *Housing Policy Debate* 26(4-5): 750-765
- 2015 • Zapata, M. and N. Kaza, Radical Uncertainty: Scenario Planning for Futures. *Environment & Planning B: Planning & Design* 42(4):754-770
- Kaza, N., Time Dependent Accessibility *Journal of Urban Management* 4(1): 24-39
- McCarty, J. and N. Kaza, Urban Form and Air Quality in the United States. *Landscape & Urban Planning* 139:168-179
- 2014 • Kaza, N. and M. Patane., The Land Use Energy Connection. *Journal of Planning Literature* 29(4):355-369
- Lester, T.W., N. Kaza and S. Kirk, Making Room for Manufacturing: Understanding Threats to Industrial Land Conversion in Cities. *Journal of American Planning Association* 79(4):295-313
- Kaza, N., Persons, Politics and Planning. *Planning Theory* 13(2):136-151
- Kaza, N., R. Quercia and C. Tian, Home Energy Efficiency and Mortgage Risks. *Cityscape* 16(1):279-298. An extended abstract also appears in *Community Development Investment Review* Federal Reserve Bank of San Francisco 10(1):63-69. Also featured in *Communities & Banking magazine* Federal Reserve Bank of Boston 26(1):22-23
- 2013 • Brookshire, D. and N. Kaza. Planning for Seven Generations: Energy Planning of American Indian Tribes. *Energy Policy* 62:1506-1514
- Kaza, N., T. W. Lester and D. A. Rodriguez, The spatio-temporal clustering of green buildings in the US. *Urban Studies* 50(16):3262-3282
- Kaza, N., The Changing Urban Landscape of Continental United States *Landscape and Urban Planning* 110:74-86
- Kaza, N. and T. K. BenDor, Land Value Impacts of Aquatic Ecosystem Restoration. *Journal of Environmental Management* 127:289-299
- 2012 • BenDor, T. K. and N. Kaza, A Theory of Spatial Systems Archetypes. *System Dynamics Review* 28(2):109-130
- Kaza, N. and L. D. Hopkins, Intentions, Urban Plans and Information Systems. *International Journal of Geographic Information Science* 26(3):557-576
- 2011 • Kaza, N., C. Towe and X. Ye, A Hybrid Land Conversion Model Incorporating Multiple End Uses. *Agricultural and Resource Economics Review* 40(3):341-359
- Kaza, N., I. Knaap, G. Knaap and R. Lewis, Peak Oil, Urban Form and Public Health: Exploring the Connections *American Journal of Public Health* 101(9):1598-1606
- Chakraborty, A., N. Kaza, G. Knaap and B. Deal, Robust Plans and Contingent Plans: Scenario Planning for Uncertain Times. *Journal of American Planning Association* 77(3):251-266
- 2010 • Kaza, N., Understanding Household Energy Consumption through Quantile Regression Approaches. *Energy Policy* 38(11): 6574-6585

Bibliography (contd.)

- Kaza, N., D. Finn and L. D. Hopkins, Updating Plans: A Historiography of Decisions Over Time. *Journal of Information Technology in Construction*. 15:159–168
- 2009 • Kaza, N. and L. D. Hopkins, In What Circumstances Should Plans be Public? *Journal of Planning Education and Research* 28(4): 491–502
- 2006 • Kaza, N., Tyranny of the Median and Costly Consent: A Reflection on the Justification for Participatory Urban Planning Processes. *Planning Theory* 5(3): 255–270.
- 2005 • Hopkins, L. D., N. Kaza, and V. G. Pallathucheril, Representing urban development plans and regulations as data: A planning data model. *Environment & Planning B : Planning & Design* 32(4): 597–615.

Book Reviews (3 in-press/published)

- 2015 • Review of *Land Policy: Planning and the Spatial Consequences of Property* Benjamin Davy. *Planning Theory* 14(2): 212–224
- 2012 • Review of *The Exposed City: Mapping the Urban Invisibles* Nadia Amoroso. *Journal of Regional Science* 52(2): 392–394
- 2009 • Methods, Information Systems and Mapping. Review of *Planning Support Systems for cities and regions* Edited by Richard Brail. *Journal of American Planning Association* 76(1):123

Working Papers (3 in preparation)

- Hopkins, L.D., N.Kaza, N. and G. Knaap *Against Implementation*
- Kaza, N. and J. McCarty *Lumpy Urban Development*
- Kaza, N. *Whose plans are those anyway? Evaluating the Tribal Energy Program*

Conference Papers (selected)

- 2014 • Kaza, N., Whose plan is it anyway? Energy Planning by American Indian tribes in the United States —*ACSP Conference*, Philadelphia, PA
- 2013 • Kaza, N., C. Tian and R. Quercia. Home Energy Efficiency and Mortgage Risks —*ACEEE finance Forum*, Chicago, IL
- Kaza, N. Industrial Land Transformation in Cities —*Urban Affairs Association*, San Francisco, CA
- Kaza, N., P. Berke and D. Spurlock, Plans and Non-Plans: The uses of Planning —*AESOP-ACSP Joint Congress*, Dublin
- 2012 • Brookshire, D. and N. Kaza. Sustaining the Seventh Generation: Strategic Energy Planning of American Indian Tribes. —*2012 Society of Government Economists*, Washington, DC
- Kaza, N., Persons, Politics and Planning — *26th AESOP Conference*, Ankara
- Kaza, N., The Changing Urban Landscape of United States — *50th WRSA Conference*, Kauai, HI
- 2011 • Zapata, M. and N. Kaza Scenario Planning for Uncertain Futures: Incorporating Multiple Futures and Multiple Publics.— *51st ACSP Conference*, Minneapolis, MN.
- BenDor, T. and N. Kaza Land Value Impacts of Aquatic Ecosystem Restoration: An Analysis of the Research Triangle Region of North Carolina — *51st ACSP Conference*, Salt Lake City, UT.
- 2010 • Kaza, N., Towe, C. and Ye, X. Scenarios Using Land Conversion Model for Multiple Land uses, — *50th ACSP Conference*, Minneapolis, MN..
- Knaap, G., Kaza, N. and Lewis, R. Density and Public Health: It is not that simple, — *50th ACSP Conference*, Minneapolis, MN.

Bibliography (contd.)

- Blohm, A., Becker, J., Kaza, N., Knaap, G, Moglen, G. and Ruth, M., Envisioning a sustainable Maryland: Comparing alternative development scenarios considering energy consumption and water quality — *49th WRSA Conference, Sedona, AZ*
- 2009
 - Kaza, N., Knaap, G, and Clifton, K., Economic Scenarios and Development Patterns in the Baltimore-Washington Region— *49th ACSP Conference, Crystal City, VA*
 - Kaza, N., Towe, C., Ye, X. and Thapa, B., An Economic model of Land Conversion Incorporating Multiple Land uses— *American Agricultural Economics Association Annual Meetings, Milwaukee, WI*
- 2008
 - Kaza, N., Knaap, G, and Meade, D., Exploring alternative Futures Using a Spatially Explicit Econometric Model— *55th North American Meetings of the Regional Science Association., Brooklyn, NY*
- 2008
 - Knaap, G., A. Chakraborty, and N. Kaza, Planning a new era in the smart growth state: A primer on state development plans *2008 ACSP-AESOP Joint Congress, Chicago, IL.*
- 2007
 - Kaza, N., Plans in Decision Support Systems and Decisions in Planning Support Systems *48th ACSP Conference, Milwaukee, WI.*
- 2006
 - Donaghy, K. P., and N. Kaza, The Value of Waiting: A Primer on Option Value for Planners, *47th ACSP Conference, Fort Worth, TX.*
 - Kaza, N., and L. D. Hopkins, Reasoning with Plans: Semantic Relationships among Interdependent and Contingent Landuse Plans, *47th ACSP Conference, Fort Worth, TX.*
 - Kaza, N., and L. D. Hopkins, Ontology for Land Development Decisions and Plans, *Ontologies for Urban Development: Interfacing Urban Information Systems, Geneva, Switzerland.*
 - Kaza, N., and Hopkins, L. D., In What Circumstances Should We Plan in Public?, *Second World Planning Schools Congress, Mexico City, Mexico.*
- 2005
 - Kaza, N., Deliberations between experts and laity: An approach to building planning information systems, *UCGIS summer assembly, Jackson, WY - Student Paper Award.*
- 2003
 - Hopkins, L. D., N. Kaza, and V. G. Pallathucheril, Shared Data Model for Describing Plans and Regulations as Inputs to Simulation Models of Urban Development, *North American Meetings of RSAI conference, Philadelphia, PA .*
 - Hopkins, L. D., N. Kaza, and V. G. Pallathucheril, Planning Markup Language: Representing the meanings of plans and regulations, *AESOP-ACSP Joint conference, Leuven, Belgium.*

Grants

- 2016-2017
 - Property Rights and Land Tenure in the Slums of Bangalore, India *Omidiyar Network* Co-Principal Investigator with Anirudh Krishna, Erik Webbels, Ranga Raju Vastavai \$232,000
- 2014-2015
 - Research on Urban Form: A typology of carbon emissions by neighborhood type in Ningbo, China *World Bank* Co-Principal Investigator with Yan Song \$175,000
- 2014-2017
 - Quantifying risks from changing U.S. PM2.5 distributions due to climate variability and warming with large multi-model ensembles and high-resolution downscaling, *US Environmental Protection Agency STAR grant*, Investigator with Arlene Fiore (Principal Investigator) and Jason West (co-Principal Investigator), \$788,625
- 2013
 - Junior Faculty Development Award, *University of North Carolina at Chapel Hill* \$7,500
- 2012-2014
 - The Mortgage Performance of Energy Efficient Homes, *Institute for Market Transformation* Co-Principal Investigator with Roberto Quercia \$46,200

Grants (contd.)

- 2012-2013 • Incubator Study on Industrial Land Use, *What Works Collaborative*, Urban Land Institute Co-Principal Investigator with T. William Lester, Daniel Rodriguez, Yan Song and Philip Berke \$75,000
- 2011-2012 • Accessibility in a Gendered Economy, *Carolina Transportation Program*, Principal Investigator, \$5,000
- 2011-2013 • Joint Region Marianas Energy Investment Program Development Extension *NAVFAC Marianas, United States Navy*, Principal Investigator, \$206,040
- 2010-2012 • Joint Region Marianas Energy Investment Program Development *NAVFAC Marianas, United States Navy*, Principal Investigator, \$175,102
- 2010-2011 • Decision Support Systems for Eastern North Carolina, *Southeast Regional Partnership for Planning and Sustainability*, Co-Principal Investigator with Todd Bendor, Phil Berke, Yan Song, David Salvesen, \$49,994
- 2008-2011 • Toward a transportation modeling system for Maryland, *University Transportation Center*, Co-Principal Investigator with Gerrit Knaap, \$224,528
- 2010-2011 • Linking Econometric Models with Chesapeake Bay Models, Updating Nutrient Loading Models, and Coordinating to Support the Maryland State Development Plans, *US Environmental Protection Agency*, Co-Investigator with Charles Towe, Glenn Moglen and Gerrit Knaap, \$165,000

Honors & Fellowships

- Schwab Academic Excellence Award, '17, Institute for the Arts & Humanities, UNC Chapel Hill
- Progress Energy Fellowship, '12, Institute for the Environment, UNC Chapel Hill
- Department Excellence Award, '08, Department of Urban and Regional Planning, UIUC.
- Merit based research fellowship, '03-'04, Program in Environmental and Resource Economics, UIUC.
- Pre-Doctoral fellow, '01-'02, Department of Urban and Regional Planning, UIUC.
- National Merit Scholar '93, Ministry of Human Resources, Union Government of India.

Other Professional Activities

- Associate Editor, *Journal of Urban Management*
- Reviewer for *Journal of American Planning Association*, *Journal of Planning Education and Research*, *American Journal of Public Health*, *Journal of Environmental Planning & Management*, *Future Internet*, *Land Use Policy*, *Journal of Planning Literature*, *Urban Studies*, *European Journal of Operations Research*, *Energy Policy*, *Landscape and Urban Planning*, *Environment Systems & Decisions*, *Journal of Transport & Landuse*, *International Journal of Geographic Information Science*
- Member of planning tools task force for Greater Washington 2050 Region Forward '09
- Organiser for symposium on "Using Plans" honouring Lew Hopkins's contributions '08
- Member of Ph.D. Committee, AY '11-'12
- Member of MCRP Committee, Fall '12
- Reviewer for Indo-US Science & Technology Forum (IUSSTF), American Association for the Advancement of Science (AAAS), '12
- Member of Scientific Committee, Conference of Computers in Urban Planning and Urban Management, '13
- Member of Organising Committee, Cities, Rivers, and Cultures of Change: Rethinking and Restoring the Environments of the Global American South, AY '13-'14
- Director of Undergraduate Studies, AY '13-'14
- Search Committee Member for Urban Design Position, AY '13-'14

Skills

Languages

Programming Languages

Software

- English (fluent), Hindi (fluent), Telugu (native)
- Proficient in R, C, C++, Python, Java
- Worked extensively with Markup Languages such as HTML, XML, GML, \LaTeX
- Proficient in technical software including ArcGIS, GRASS, SPSS, GeoDa, Auto-CAD.