

# Nikhil Kaza

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## Education

### University of Illinois

PH.D. IN REGIONAL PLANNING

Urbana Champaign

2008

### University of Illinois

M.S. IN APPLIED MATHEMATICS

Urbana Champaign

2007

### University of Illinois

M.U. P. IN URBAN PLANNING

Urbana Champaign

2004

### Indian Institute of Technology

B.ARCH (HONS.) IN ARCHITECTURE

Kharagpur, India

2001

## Experience

### Department of City & Regional Planning

PROFESSOR

University of North Carolina at Chapel Hill

Jul 2021 - Present

### Center for Urban & Regional Studies

DIRECTOR

University of North Carolina at Chapel Hill

Jul 2021 - Jul 2024

### Environment, Ecology & Energy Program

ADJUNCT ASSOCIATE PROFESSOR

University of North Carolina at Chapel Hill

Jul 2016 - Jul 2024

### School of Architecture, Civil & Environmental Engineering

HOST PROFESSOR

Ecole Polytechnique Fédérale de Lausanne

Jan 2019 - May 2019

### Department of City & Regional Planning

ASSOCIATE PROFESSOR

University of North Carolina at Chapel Hill

Jul 2015 - Jul 2021

### Department of City & Regional Planning

ASSOCIATE CHAIR

University of North Carolina at Chapel Hill

Jul 2015 - Jul 2017

### Department of City & Regional Planning

ASSISTANT PROFESSOR

University of North Carolina at Chapel Hill

Jul 2009 - Jul 2015

### Curriculum of Ecology & Environment

ADJUNCT ASSISTANT PROFESSOR

University of North Carolina at Chapel Hill

Jan 2012 - Jul 2016

### EDAW Inc.

SUSTAINABILITY SYSTEMS MODELER

Washington, DC

Jan 2008 - Dec 2008

### National Center for Smart Growth Research & Education

POST DOCTORAL FELLOW

University of Maryland at College Park

Nov 2007 - Jun 2009

## Publications

### REFEREED JOURNAL PAPERS

Total number of articles in referred journals: **43**

Branham, J., Salvesen, D., Kaza, N., & K. BenDor, T. (2024). A wrench in the machine: How subsidy removal alters the politics of coastal development. *Journal of the American Planning Association*, 90(1), 18–29. <https://doi.org/10.1080/01944363.2022.2119156>

Hino, M., BenDor, T. K., Branham, J., Kaza, N., Sebastian, A., & Sweeney, S. (2024). Growing safely or building risk? *Journal of the American Planning Association*, 90(1), 1–11. <https://doi.org/10.1080/01944363.2022.2141821>

Kaza, N. (2024). Multiclass compactness index for urban areas. *The Professional Geographer*, 1–11. <https://doi.org/10.1080/00330124.2024.2328689>

DiCarlo, M., Berglund, E. Z., Kaza, N., Grieshop, A., Shealy, L., & Behr, A. (2023). Customer complaint management

- and smart technology adoption by community water systems. *Utilities Policy*, 80, 101465. <https://doi.org/10.1016/j.jup.2022.101465>
- Li, C., Song, Y., Kaza, N., & Burghardt, R. (2023). Explaining spatial variations in residential energy usage intensity in Chicago: The role of urban form and geomorphometry. *Journal of Planning Education and Research*, 43(2), 317–331. <https://doi.org/https://doi.org/10.1016/j.enbuild.2017.10.007>
- Branham, J., Kaza, N., BenDor, T., Salvesen, D., & Onda, K. (2022). Removing federal subsidies from high-hazard coastal areas slows development. *Frontiers in Ecology & Environment*, 20(9), 500–506.
- Kaza, N. (2022). Landscape shape adjusted compactness index for urban areas. *Geoforum*, 87(1399-1409). <https://doi.org/10.1007/s10708-020-10262-9>
- Wang, J., Kaza, N., McDonald, N. C., & Khanal, K. (2022). Socio-economic disparities in activity-travel behavior adaptation during the COVID-19 pandemic in North Carolina. *Transport Policy*, 125, 70–78. <https://doi.org/10.1016/j.tranpol.2022.05.012>
- Branham, J., Onda, K., Kaza, N., BenDor, T. K., & Salvesen, D. (2021). How does the removal of federal subsidies affect investment in coastal protection infrastructure? *Landuse Policy*, 102, 105245.
- Kaza, N., & Nesse, K. (2021). Characterizing the regional structure in United States: A county-based analysis of labor market centrality. *International Journal of Regional Science Review*, 44(5), 487–614. <https://doi.org/https://doi.org/10.1177/0160017620946082>
- He, M., Glasser, J., Pritchard, N., Bhamidi, S., & Kaza, N. (2020). Demarcating regions using community detection in commuting networks. *PLOS One*, 15(4), e0230941.
- Kaza, N. (2020). Urban form and transportation energy consumption. *Energy Policy*, 136, 111049. <https://doi.org/https://doi.org/10.1016/j.enpol.2019.111049>
- Onda, K., Branham, J., BenDor, T. K., Kaza, N., & Salvesen, D. (2020). Does removal of federal subsidies discourage development? An evaluation of the US coastal barrier resources act. *PLOS One*, 15(6), e0233888. <https://doi.org/https://doi.org/10.1371/journal.pone.0233888>
- Peng, K., & Kaza, N. (2020). Association between neighborhood food access, household income, and purchase of snacks and beverages in the United States. *International Journal of Environmental Research and Public Health*, 17, 7517.
- Pesantez, J. E., Berglund, E. Z., & Kaza, N. (2020). Smart meters data for modeling and forecasting water demand at the user-level. *Environmental Modelling and Software*, 125, 104633. <https://doi.org/https://doi.org/10.1016/j.envsoft.2020.104633>
- Kaza, N. (2019). Vain foresight: Against the idea of implementation in planning. *Planning Theory*, 18(4), 410–428.
- Onda, K., Sinha, P., Stevens, F., Gaughan, A. E., & Kaza, N. (2019). Missing millions: Undercounting urbanisation in India. *Population & Environment*, 41(2), 126–150. <https://doi.org/10.1007/s11111-019-00329-2>
- Peng, K., & Kaza, N. (2019). Built environment and the purchase of fruits and vegetables in United States households. *Public Health Nutrition*, 22(13), 2436–2447. <https://doi.org/10.1017/S1368980019000910>
- Li, C., Song, Y., & Kaza, N. (2018). Urban form and household electricity consumption: A multilevel study. *Energy and Buildings*, 158(1), 181–193. <https://doi.org/10.1016/j.enbuild.2017.10.007>
- Qiu, S., & Kaza, N. (2017). Evaluating the impacts of the clean cities program. *Science of The Total Environment*, 579, 254–262. <https://doi.org/10.1016/j.scitotenv.2016.11.119>
- Hartley, D. A., Kaza, N., & Lester, T. W. (2016). Are America's inner cities competitive? Evidence from the 2000s. *Economic Development Quarterly*, 30(2). <http://dx.doi.org/10.1177/0891242416638932>
- Kaza, N., Riley, S., Quercia, R. G., & Tian, C. (2016). Location efficiency & mortgage risks for low-income households. *Housing Policy Debate*, 26(4-5), 750–765. <http://dx.doi.org/10.1080/10511482.2016.1159972>
- Kaza, N. (2015). Time dependent accessibility. *Journal of Urban Management*, 4(1), 24–39. <http://dx.doi.org/10.1016/j.jum.2015.06.001>
- McCarty, J., & Kaza, N. (2015). Urban form and air quality. *Landscape and Urban Planning*, 139, 168–179. <http://dx.doi.org/10.1016/j.landurbplan.2015.03.008>
- Zapata, M., & Kaza, N. (2015). Radical uncertainty: Scenario planning for futures. *Environment and Planning B: Planning and Design*, 42(4), 754–770. <http://www.envplan.com/epb/fulltext/bforth/b39059.pdf>
- Kaza, N. (2014). Persons, politics and planning. *Planning Theory*, 13(2), 136–151. <http://dx.doi.org/10.1177/1473095213490687>
- Kaza, N., & Patane, M. (2014). The land use energy connection. *Journal of Planning Literature*, 29(4), 355–369. <http://dx.doi.org/10.1177/0885412214542049>
- Kaza, N., Tian, C., & Quercia, R. G. (2014). Home energy efficiency and mortgage risks. *Cityscape*, 16(1), 279–298. <http://www.huduser.org/portal/periodicals/cityscpe/vol16num1/ch16.pdf>
- Brookshire, D., & Kaza, N. (2013). Planning for seven generations: Energy planning of American Indian tribes. *Energy*

- Policy, 62, 1506–1514. <http://dx.doi.org/10.1016/j.enpol.2013.07.021>
- Kaza, N. (2013). The changing urban landscape of continental united states. *Landscape and Urban Planning*, 110, 74–86. <http://dx.doi.org/10.1016/j.landurbplan.2012.10.015>
- Kaza, N., & BenDor, T. K. (2013). Land value impacts of aquatic ecosystem restoration. *Journal of Environmental Management*, 127, 289–299. <http://dx.doi.org/10.1016/j.jenvman.2013.04.047>
- Kaza, N., Lester, T. W., & Rodriguez, D. (2013). The spatio-temporal clustering of green buildings in the US. *Urban Studies*, 50(16), 3262–3282. <http://dx.doi.org/10.1177/0042098013484540>
- Lester, T. W., Kaza, N., & Kirk, S. (2013). Making room for manufacturing: Understanding industrial land conversion in cities. *Journal of American Planning Association*, 79(4), 295–313. <http://dx.doi.org/10.1080/01944363.2014.915369>
- BenDor, T. K., & Kaza, N. (2012). A theory of spatial systems archetypes. *System Dynamics Review*, 28(2), 109–130. <http://dx.doi.org/10.1002/sdr.1470>
- Kaza, N., & Hopkins, L. D. (2012). Intentions, urban plans and information systems. *International Journal of Geographic Information Science*, 26(3), 557–576. <http://dx.doi.org/10.1080/13658816.2011.603337>
- Chakraborty, A., Kaza, N., Knaap, G. J., & Deal, B. (2011). Robust plans and contingent plans: Scenario planning for an uncertain world. *Journal of the American Planning Association*, 77(3), 1–17. <http://dx.doi.org/10.1080/01944363.2011.582394>
- Kaza, N., Knaap, I., Knaap, G. J., & Lewis, R. (2011). Peak oil, urban form and public health: Exploring the connections. *American Journal of Public Health*, 101(9), 1598–1606. <http://dx.doi.org/10.2105/AJPH.2011.300192>
- Kaza, N., Towe, C., & Ye, X. (2011). A hybrid land conversion model incorporating multiple end uses. *Agricultural and Resource Economics Review*, 40(3), 341–359. <http://ageconsearch.umn.edu/bitstream/120447/2/kaza-current.pdf>
- Kaza, N. (2010). Understanding the spectrum of residential energy consumption: A quantile regression approach. *Energy Policy*, 38(11), 6574–6585. <http://dx.doi.org/10.1016/j.enpol.2010.06.028>
- Kaza, N., Finn, D., & Hopkins, L. D. (2009). Updating plans: A historiography of decisions over time. *Journal of Information Technology in Construction*, 15, 159–168. [http://www.itcon.org/data/works/att/2010\\_13.content.03108.pdf](http://www.itcon.org/data/works/att/2010_13.content.03108.pdf)
- Kaza, N., & Hopkins, L. D. (2009). In what circumstances should plans be public? *Journal of Planning Education and Research*, 28(4), 491–502. <http://dx.doi.org/10.1177/0739456X08330978>
- Kaza, N. (2006). Tyranny of the median: A reflection on the participatory urban processes. *Planning Theory*, 5(3), 255–270. <http://dx.doi.org/10.1177/1473095206068630>
- Hopkins, L. D., Kaza, N., & Pallathucheril, V. G. (2005). Representing urban development plans and regulations as data: A planning data model. *Environment & Planning B: Planning and Design*, 32(4), 597–615. <http://envplan.com/epb/fulltext/b32/b31178.pdf>

## MANUSCRIPTS

Manuscripts in progress/submitted/accepted: **5**

- Branham, J., Kaza, N., & BenDor, T. (n.d.). Do development disincentives influence land conservation activity? In *Frontiers of Ecology & Environment*.
- Donald, B., Brail, S., Lowe, N., DeLoyde, C., Heatwole, K., Hernandez, F., Hill-Tout, K., Kaza, N., Khanal, K., Planey, D., & Wang, J. (n.d.). The Dashboard is not dead: Dashboards as effective tools in skills building, sense-making and community collaboration. In *Journal of American Planning Association*.
- Kaza, N., Brookshire, D., Toledo, K., Perrit, M., & Murphy, S. (n.d.). Whose plan is it anyway? Energy planning by american indian tribes in the united states. In *Journal of Planning Education and Research*.
- Khanal, K., Lowe, N., & Kaza, N. (n.d.). Retraining for energy transition: A workforce development approach using occupational similarity and unsupervised clustering. In *Economic Development Quarterly*.
- Lester, T. W., Kaza, N., & McAdam, T. (n.d.). Splintered metropolitan opportunity in the united states? Re-examining the 'mismatch' between emerging employment centers and distressed neighborhoods. In *Economic Development Quarterly*.

## BOOK CHAPTERS

Total number of chapters in collected volumes: **4**

- Becker, J., & Kaza, N. (2022). Tale of two sprawls: Energy planning and challenges for smart growth 2.0. In A. Chakraborty, R. Lewis, & G. J. Knaap (Eds.), *Handbook on smart urban growth* (pp. 291–302). Edward Elgar.

- Kaza, N., & Knaap, G. J. (2011). Principles of planning for economists. In N. Brooks, G. J. Knaap, & K. P. Donaghy (Eds.), *Oxford handbook of urban economics and planning* (pp. 29–50). Oxford University Press. <http://dx.doi.org/10.1093/oxfordhb/9780195380620.013.0003>
- Kaza, N., & Hopkins, L. D. (2007). Ontology for land development decisions and plans. In J. Teller, J. Lee, & C. Roussey (Eds.), *Ontologies for urban development* (pp. 47–59). Springer-Verlag. [http://dx.doi.org/10.1007/978-3-540-71976-2\\_5](http://dx.doi.org/10.1007/978-3-540-71976-2_5)
- Hopkins, L. D., Kaza, N., & Pallathucheril, V. G. (2005). A data model to incorporate plans and regulations in urban simulation models. In D. G. Maguire, M. Batty, & M. Goodchild (Eds.), *GIS, spatial analysis and modeling* (pp. 173–202). ESRI Press.