

# Nikhil Kaza

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## Education

<b>University of Illinois</b> PH.D. IN REGIONAL PLANNING	Urbana Champaign 2008
<b>University of Illinois</b> M.S. IN APPLIED MATHEMATICS	Urbana Champaign 2007
<b>University of Illinois</b> M.U. P. IN URBAN PLANNING	Urbana Champaign 2004
<b>Indian Institute of Technology</b> B.ARCH (HONS.) IN ARCHITECTURE	Kharagpur, India 2001

## Experience

<b>Department of City &amp; Regional Planning</b> PROFESSOR	University of North Carolina at Chapel Hill Jul 2021 - Present
<b>Center for Urban &amp; Regional Studies</b> DIRECTOR	University of North Carolina at Chapel Hill Jul 2021 - Jul 2024
<b>Environment, Ecology &amp; Energy Program</b> ADJUNCT ASSOCIATE PROFESSOR	University of North Carolina at Chapel Hill Jul 2016 - Jul 2024
<b>School of Architecture, Civil &amp; Environmental Engineering</b> HOST PROFESSOR	Ecole Polytechnique Fédérale de Lausanne Jan 2019 - May 2019
<b>Department of City &amp; Regional Planning</b> ASSOCIATE PROFESSOR	University of North Carolina at Chapel Hill Jul 2015 - Jul 2021
<b>Department of City &amp; Regional Planning</b> ASSOCIATE CHAIR	University of North Carolina at Chapel Hill Jul 2015 - Jul 2017
<b>Department of City &amp; Regional Planning</b> ASSISTANT PROFESSOR	University of North Carolina at Chapel Hill Jul 2009 - Jul 2015
<b>Curriculum of Ecology &amp; Environment</b> ADJUNCT ASSISTANT PROFESSOR	University of North Carolina at Chapel Hill Jan 2012 - Jul 2016
<b>EDAW Inc.</b> SUSTAINABILITY SYSTEMS MODELER	Washington, DC Jan 2008 - Dec 2008
<b>National Center for Smart Growth Research &amp; Education</b> POST DOCTORAL FELLOW	University of Maryland at College Park Nov 2007 - Jun 2009

## Grants

2023–2024	“Finding Unconventional Housing in Risky Places” <i>School of Data Science and Society</i>	\$49,991
2023–2024	“Multi-Scale Imitation and Robust Recognition of Obfuscated Routes” <i>Intelligence Advanced Research Projects Agency</i>	\$116,399
2020–2021	“Transportation Electrification” <i>University Transportation Center</i>	\$130,151
2020–2020	“Monitoring Economic Recovery in North Carolina” <i>North Carolina Policy Collaboratory</i>	\$287,028
2019–2020	“Evaluating the Buyouts in North Carolina” <i>North Carolina Policy Collaboratory</i>	\$424,878
2018–2019	“Creating an Interdisciplinary Network to Investigate Drivers of Biodiversity” <i>University of North Carolina Inter Institutional Planning Grant</i>	\$22,000

2017–2019	“Relationships Between Removal of Infrastructure Subsidies and Coastal Development” <i>National Science Foundation</i>	\$348,507
2017–2018	“Smart Management of Water Resources and Infrastructure with the Internet of Things” <i>University of North Carolina Inter Institutional Planning Grant</i>	\$75,000
2016–2017	“Property Rights and Land Tenure in Slums in Bangalore” <i>Omidiyar Network</i>	\$81,047
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” <i>US Environmental Protection Agency STAR grant</i>	\$839,939
2014–2015	“Research on Urban Form: A typology of carbon emissions by neighborhood type in Ningbo, China” <i>World Bank</i>	\$187,671
2013–2013	“Junior Faculty Development Grant” <i>University of North Carolina</i>	\$7,500
2012–2014	“The Mortgage Performance of Energy Efficient Homes” <i>Institute for Market Transformation</i>	\$46,200
2012–2013	“Incubator Study on Industrial Land Use” <i>What Works Collaborative</i>	\$75,000
2011–2013	“Joint Region Marianas Energy Investment Program Development Extension” <i>NAVFAC Marianas, US Navy</i>	\$179,375
2011–2012	“Accessibility in a Gendered Economy” <i>Carolina Transportation Program</i>	\$5,000
2010–2012	“Joint Region Marianas Energy Investment Program Development Extension” <i>NAVFAC Marianas, US Navy</i>	\$173,412
2010–2011	“Decision Support Systems for Eastern North Carolina” <i>Southeast Regional Partnership for Planning and Sustainability</i>	\$62,971
2010–2011	“Linking Econometric Models and Chesapeake Bay Models, Updating Nutrient Load Models, and Coordinating Support of Maryland State Development Plans” <i>Environmental Protection Agency</i>	\$164,999
2008–2011	“Towards a Transportation Modeling System for Maryland” <i>University Transportation Center</i>	\$332,301

I have acquired (in most cases jointly) \$3.6 million in research grants.

## Publications

### REFEREED JOURNAL PAPERS

According to Google Scholar, the **43** articles (co-)authored by me have been cited **2,067** times.

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/cityscape/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-towe-ye-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>

## BOOK REVIEWS

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

## 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*.

tion.

**Kaza, N.**, Brookshire, D., Toledo, K., Peritt, 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.

## Presentations

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### INVITED TALKS

2023	Tongji University, Hunan University, Hong Kong University of Science and Technology	<i>Lectures on Geospatial Analysis in R for Urban Health</i>
2021	University of Reading	<i>Vain Foresight</i>
2021	Maryland Department of Planning	<i>Tale of Two Sprawls</i>
2019	ETH Zurich	<i>Urban Form and Transportation Energy Consumption</i>

### CONFERENCE PRESENTATIONS (SELECTED)

Khanal, K., Lowe, N., & **Kaza, N.** (2023). Targeting occupations to retrain for clean energy workforce development and implications for labor market dynamics. *ACSP Conference - Chicago, IL*.

Khanal, K., **Kaza, N.**, & Kittner, N. (2022). Evaluating generalisation of deep learning computer vision models for satellite data and global development. *SatSummit*.

Branham, J., **Kaza, N.**, BenDor, T. K., & Onda, K. (2021). Does subsidy removal reduce coastal development? Measuring the effect of US coastal barrier resources act. *ACSP Conference*.

Hino, M., BenDor, T. K., **Kaza, N.**, Sebastian, A., Branham, J., & Sweeney, S. (2021). One step forward, two steps back: Managing floodplain development in north carolina (invited). *American Geophysical Union (AGU) Fall Meeting - New Orleans, LA*.

Hino, M., BenDor, T. K., **Kaza, N.**, Sebastian, A., Branham, J., & Sweeney, S. (2021). One step forward, two steps back: Managing floodplain development in north carolina (invited). *ACSP Conference*.

He, M., Glasser, J., Pritchard, N., Bhamidi, S., & **Kaza, N.** (2019). Community detection in strongly self-looping weighted networks. *Statistical Inference on Network Models - Burlington, VA*.

**Kaza, N.** (2019). Urban form and transportation energy consumption. *ACSP Conference - Columbia, SC*.

Onda, K., Branham, J., BenDor, T., **Kaza, N.**, & Salvesen, D. (2019). Does removing federal infrastructure subsidies discourage development. *Third International Conference on Natural Resource Management and Public Policy - Wuhan*.

- Peng, K., & **Kaza, N.** (2019). Effects of street connectivity and duration of exposure on visits to fast food restaurants: A GPS based case study of atlanta region. *ACSP Conference - Columbia, SC*.
- Gadiraju, K. K., Vatsavai, R. R., **Kaza, N.**, Wibbels, E., & Krishna, A. (2018). Machine learning approaches for slum detection using very high resolution satellite images. *2018 IEEE International Conference on Data Mining Workshops (ICDMW)*, 1397–1404. <https://doi.org/10.1109/ICDMW.2018.00198>
- Kaza, N.**, Sinha, P., Stevens, F., & Gaughan, A. E. (2018). The missing millions: Undercounting urbanisation in india. *World Congress of Regional Science Association International*.
- Li, C., Song, Y., & **Kaza, N.** (2016). Residential energy consumption: A structural analysis of chicago. *ACSP Conference - Portland, OR*.
- Kaza, N.** (2014). Whose plan is it anyway? Energy planning by american indian tribes in the united states. *53rd ACSP Conference*.
- Kaza, N.**, Knaap, G., & Hopkins, L. D. (2014). Vain foresight: Against implementation. *ACSP Conference - Portland, OR*.
- Kaza, N.** (2013). Industrial land transformation in cities. *Urban Affairs Association*.
- Kaza, N.**, Tian, C., & Quercia, R. (2013). Home energy efficiency and mortgage risks. *ACEEE Finance Forum*.
- Brookshire, D., & **Kaza, N.** (2012). Sustaining the seventh generation: Strategic energy planning of american indian tribes. *2012 Society of Government Economists*.
- Kaza, N.** (2012). Persons, politics and planning. *26th AESOP Conference*.
- Kaza, N.** (2012). The changing urban landscape of united states. *50th WRSA Conference*.
- BenDor, T., & **Kaza, N.** (2011). Land value impacts of aquatic ecosystem restoration: An analysis of the research triangle region of north carolina. *51st ACSP Conference*.
- Zapata, M., & **Kaza, N.** (2011). Scenario planning for uncertain futures: Incorporating multiple futures and multiple publics. *51st ACSP Conference*.
- Blohm, A., Becker, J., **Kaza, N.**, Knaap, G., Moglen, G., & Ruth, M. (2010). Envisioning a sustainable maryland: Comparing alternative development scenarios considering energy consumption and water quality. *49th WRSA Conference*.
- Kaza, N.**, Towe, C., & Ye, X. (2010). Scenarios using land conversion model for multiple land uses. *50th ACSP Conference*.
- Knaap, G., **Kaza, N.**, & Lewis, R. (2010). Density and public health: It is not that simple. *50th ACSP Conference*.
- Kaza, N.**, Knaap, G. J., & Clifton, K. (2009). Economic scenarios and development patterns in the baltimore-washington region. *49th ACSP Conference*.
- Kaza, N.**, Towe, C., Ye, X., & Thapa, B. (2009). An economic model of land conversion incorporating multiple land uses. *American Agricultural Economics Association Annual Meetings*.
- Knaap, G., Chakraborty, A., & **Kaza, N.** (2008). Planning a new era in the smart growth state: A primer on state development plans. *2008 ACSP-AESOP Joint Congress*.
- Kaza, N.** (2007). Plans in decision support systems and decisions in planning support system. *48th ACSP Conference*.
- Kaza, N.**, Finn, D., & Hopkins, L. D. (2007). Updating plans: A historiography of decision over time. In C. Tweed (Ed.), *COST 21 second townontology workshop*.
- Calderón, J., Froment, A. de, Donaldson, M., McNery, G., & **Kaza, N.** (2006). Games on evolving networks. *Proceedings of Complex Systems Summer School at Santa Fe Institute*.
- Donaghy, K. P., & **Kaza, N.** (2006). The value of waiting: A primer on option value for planners. *47th ACSP Conference*.
- Kaza, N.**, & Hopkins, L. D. (2006). In what circumstances should we plan in public?., *Second World Planning Schools Congress*.
- Kaza, N.**, & Hopkins, L. D. (2006). Ontology for land development decisions and plans. *Ontologies for Urban Development: Interfacing Urban Information Systems*.
- Kaza, N.**, & Hopkins, L. D. (2006). Reasoning with plans: Semantic relationships among interdependent and contingent landuse plan. *47th ACSP Conference*.
- Kaza, N.** (2005). Deliberations between experts and laity: An approach to building planning information systems. *UCGIS Summer Assembly*.
- Hopkins, L. D., **Kaza, N.**, & Pallathucheril, V. G. (2003). Planning markup language: Representing the meanings of plans and regulations. *ACSP-AESOP Joint Congress*.

Hopkins, L. D., **Kaza, N.**, & Pallathucheril, V. G. (2003). Shared data model for describing plans and regulations as inputs to simulation models of urban development. *North American Meetings of RSAI Conference*.

## Teaching Activities

### INSTRUCTOR

PLAN 704	Theory of Planning	Fall 2009(14) Fall 2010(19) Spring 2010(25) Fall 2011(11) Fall 2012(16) Spring 2014(23) Spring 2015(41) Spring 2016(45) Spring 2017(40) Fall 2018(13) Spring 2020(32) Spring 2021(17) Spring 2021(24) Spring 2022(24) Fall 2022(46) Spring 2024(37)
PLAN 992	Master's Project	Spring 2010(2) Spring 2011(3) Spring 2012(2) Spring 2013(1) Spring 2014(3) Spring 2015(3) Spring 2016(4) Spring 2017(2) Spring 2018(2) Spring 2019(1) Spring 2021(3) Spring 2022(4) Spring 2022(2) Spring 2024(3)
PLAN 805	Advanced Planning Theory	Fall 2010(7) Fall 2012(8) Fall 2014(9) Fall 2017(6) Fall 2019(6) Fall 2021(6) Fall 2022(9)
PLAN 896	Independent Study	Spring 2010(2) Fall 2010(1) Fall 2014(2) Spring 2016(1) Spring 2024(1)
PLAN 547	Energy, Transportation and Land Use	Fall 2015(21) Fall 2016(21) Fall 2018(19) Fall 2021(12)
PLAN 672	Urban Data Analytics	Fall 2018(10) Fall 2020(7) Spring 2020(19) Fall 2022(7)
PLAN 562	Ethics and Politics of New Urban Analytics	Fall 2019(5) Fall 2020(5) Fall 2023(18)
ENEC 693H	ENEC Honors Research	Fall 2020(1) Spring 2021(1)
PLAN 823	Planning Workshop	Spring 2011(16) Fall 2011(9)
PLAN 057	What is a Good City?	Spring 2014(9) Spring 2015(9)

### DISSERTATION COMMITTEE CHAIR

2018	Ke Peng	Essays on Associations of Built Environment with use of Restaurants and Food Stores and Food Purchase in the United States
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### DISSERTATION COMMITTEE MEMBER

2024	Amanda Ullman	Measuring the Just Transition: Case Studies and Tools to Evaluate Justice in a Changing Energy System
2022	Alfredo Rojas (Anthropology)	Farming and Cooperation in Northwestern Côte d'Ivoire
2022	Kyle Onda	Essays on Measuring Urbanization and Infrastructure Service Levels
2021	Mark He	Essays on Community Detection in Networks
2020	Ahmed Rachid El-Khattabi	Managing the Demand for Scarce Water Resources: An Evaluation of Current Approaches
2019	Yan Chen	Analysing the Determinants of Urban Vibrancy: A Big Data Approach to Connecting the Built Environment, Social Activity, and Images of Place
2018	Chaosu Li	Essays on Climate Change Mitigation, Building Energy Efficiency and Urban Form
2018	William L. Bishop	Value Capture and Relevant Value Creation Resulting from Public Investment in Light Rail Transit Infrastructure and Transit Oriented Development
2018	Allison Forbes	Linked Through Skill: Labor Market Interdependencies across the Automotive Value Chain
2017	Lilah Besser	Neighborhood Built Environment Characteristics and Cognition in Non-demented Older Adults
2016	Marc Howlett	Who Plans? The Role of Metropolitan Planning Organisations in Regional Freight Planning
2012	Lyndsey Ward	Stakeholder Network Influences on Local-Level Hazard Mitigation Planning Outputs

## COMPREHENSIVE EXAM COMMITTEE MEMBER

Danielle Spurlock(2014), Louis Merlin(2014), Kevin Park(2015), Mac Howlett(2016), Chaosu Li(2016), Lilah Besser(2017), Allan Fryer(2017), Kristin Frescoln(2017), Erik Vergel(2017), William Bishop(2018), Ke Peng(2018), Henry Mckoy(2018), Allison Forbes(2018), Lindsay Mauer(2018), Yan Chen(2020), Jane Zhao(2021), Helena Cardenas(2022), Jordan Branham(2022), Nora Schwaller(2022), Matthew Wilson(2022), Alfredo Rojas(2022), Lindsay Oluyede(2022), Tibor Vegh(2024), Amanda Ullman(2024), Xijing Li(2024), Jun Huh(W), Joshu Shih(W), Kristin Vitro(W), Matthew Palmer, Kshitiz Khanal, Christopher Samoray, Yang Yang, Jo Kwan, Julia Cardwell, Megan McIntyre

## Service

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### OTHER PROFESSIONAL ACTIVITIES

- 2022–2024 Editorial Board Member, Journal of Planning Literature
- 2019–2021 Associate Editor, Environmental Science and Policy
- 2017–2024 Editorial Board Member, Planning Theory
- 2016–2019 Co-Chair, Land Use and Governance Track, ASCP
- 2015–2015 Associate Editor, Journal of Urban Management
- 2013–2014 Organising Committee for Cities, Rivers and Cultures of Change: Re-thinking and Restoring Environments of the Global American South

Reviewer for

*European Journal of Decision Processes, Applied Energy, Journal of American Planning Association, Journal of Planning Education and Research, American Journal of Public Health, Journal of Environmental Planning and Management, Future Internet, Land Use Policy, Urban Studies, European Journal of Operations Research, Energy Policy, Landscape and Urban Planning, Environment Systems and Decisions, Journal of Transport and Landuse, International Journal of Geographic Information Science, Transportation Research D, Cities, Journal of Environmental Management, EPJ Data Science, Growth and Change, Sustainability, Energy Sources, Part B: Economics, Planning, and Policy, Environmental Science and Technology, Environmental Science and Policy*

### UNIVERSITY SERVICE

- 2023–2024 Search Committee Chair (Transportation and Resilience)
- 2022–2023 Search Committee Chair (Equity and Engagement)
- 2021–2024 Sustainability Committee
- 2020–2024 Academic Policy Committee, Graduate School
- 2020–2020 Co-Chair, 75th Anniversary Reunion
- 2019–2023 Weiss Urban Livability Fellowship Committee
- 2018–2019 Organiser of Urban Form and Biodiversity
- 2018–2019 Review Committee for Institute for the Environment
- 2018 Data Science Working Group
- 2018 Search Committee Member (E3P Cluster Hire)
- 2017 Website Taskforce Member
- 2014–2017 Summer School Administrator
- 2014–2016 Associate Chair
- 2014–2016 Director of Graduate Studies and MCRP Committee Chair
- 2014–2015 Search Committee Member (Lecturer in Sustainability)
- 2013–2014 Director of Undergraduate Studies
- 2013–2014 Search Committee Member (Urban Design)
- 2012–2012 MCRP Committee Member
- 2011–2012 PhD Committee Member
- 2008 Organiser for Symposium on "Using Plans" honouring Lew Hopkins' contributions