

Robert Goodspeed

Urban and Regional Planning Program
Taubman College of Architecture and Urban Planning
University of Michigan
2000 Bonisteel Blvd.
Ann Arbor, MI 48109-2069

GENERAL INFORMATION

Education

Ph.D., Urban and Regional Planning, Massachusetts Institute of Technology, 2013.
Dissertation: "Planning Support Systems for Spatial Planning Through Social Learning"
Committee: Joseph Ferreira, Jr. (chair), Annette Kim, Brent Ryan
Donald Schön Award for Excellence in Learning from Practice, 2013

Master of Community Planning, University of Maryland—College Park, 2008.
Final Paper: "Citizen Participation and the Internet in Urban Planning"
University of Maryland Larry Reich Award for Best Final Paper, 2008

B.A. with High Distinction and High Honors, History, University of Michigan, 2004.
Thesis: "Urban Renewal in Postwar Detroit: The Gratiot Area Redevelopment Project"

Academic Appointments

Associate Professor of Urban and Regional Planning. Ann Arbor, Michigan: University of Michigan, 2021-present.

Assistant Professor of Urban Planning. Ann Arbor, Michigan: University of Michigan, 2013-2021.

Professional Experience

Research Consultant. Boston, MA: Metropolitan Area Planning Council, 2011-2013.

Rappaport Public Policy Summer Fellow. Boston, MA: Mayor's Office of New Urban Mechanics, City of Boston, 2010.

Research Analyst. Boston, MA: Metropolitan Area Planning Council, 2008-2009.

Co-Founder and Editor. College Park, MD: Rethink College Park, 2006-2008.

Information Group Summer Associate. Washington, DC: The Urban Land Institute, 2007 and 2008.

Research Historian. Rockville, MD: History Associates Incorporated, 2006.

Field Organizer, Internet Coordinator. Washington, DC: People For the American Way, 2004-2005.

SCHOLARLY WORK

Books

Goodspeed, Robert, Raja Sengupta, Marketta Kyttä and Christopher Pettit, eds. *Intelligence for Future Cities: Planning Through Big Data and Urban Analytics*. Springer, 2023.

Geertman, S.C.M., Christopher Pettit, Robert Goodspeed, and Aija Staffans, eds. *Urban Informatics and Future Cities*. Springer, 2021.

Goodspeed, Robert. *Scenario Planning for Cities and Regions: Managing and Envisioning Uncertain Futures*. Lincoln Institute of Land Policy, 2020.

Geertman, S.C.M., Joseph Ferreira, Robert Goodspeed, and John Stillwell, eds. *Planning Support Systems and Smart Cities*. Springer, 2015.

Peer-Reviewed Book Chapters

1. Goodspeed, Robert. "Leveraging the Promise of Smart Cities to Advance Smart Growth." *Handbook on Smart Growth: Promise, Principles, and Prospects for Planning*, edited by Gerrit-Jan Knaap, Rebecca Lewis, Arnab Chakraborty, and Katy June-Friesen. Edward Elgar Publishing, 2022, pp. 307-322.
2. Goodspeed, Robert, Meixin Yuan, Aaron Krusniak, and Tierra Bills. "Assessing the Value of New Big Data Sources for Transportation Planning: Benton Harbor, Michigan Case Study." *Urban Informatics and Future Cities*, edited by S.C.M. Geertman, Christopher Pettit, Robert Goodspeed, and Aija Staffans, Springer, 2021, pp. 127-150.
3. Goodspeed, Robert and Peter Pelzer. "Organizing, Facilitating, and Evaluating Planning Support System Workshops." *Handbook on Planning Support Science*, edited by Stan Geertman and John Stillwell, Edward Elgar, 2020, pp 338-352.
4. Goodspeed, Robert, Peter Pelzer, and Christopher Pettit. "Planning Our Future Cities: The Role Computer Technologies Can Play." *Planning Knowledge and Research*, edited by Thomas W. Sanchez, Routledge, 2018, pp. 210-225.
5. Goodspeed, Robert. "Urban Informatics: Defining an Emerging Field." *Big Data for Regional Science*, edited by Laurie A. Schintler and Zhenhua Chen, Routledge, 2018, pp. 324-335.
6. Goodspeed, Robert and Xiang Yan. "Crowdsourcing Street Beauty: Visual Preference Surveys in the Big Data Era." *Big Data for Regional Science*, edited by Laurie A. Schintler and Zhenhua Chen, Routledge, 2018, pp. 75-93.
7. Goodspeed, Robert and Joseph Grengs. "Domain Application: Urban and Regional Planning." *The GIS&T Body of Knowledge*, edited by John Wilson, The University Consortium for GIS, 2017, published online: <https://gistbok.ucgis.org/bok-topics/gist-urban-and-regional-planning>
8. Pelzer, Peter, Robert Goodspeed, and Marco te Brömmelstroet. "Facilitating PSS Workshops: A Conceptual Framework and Findings from Interviews with Facilitators." *Planning Support Systems and Smart Cities*, edited by S.C.M. Geertman, Joseph Ferreira, Robert Goodspeed, and John Stillwell, Springer, 2015, pp. 355-369.

Peer-Reviewed Journal Articles

Effective Use of Knowledge Technologies for Collaborative Planning

1. Machiels, Thomas, Robert Goodspeed, Tine Compernelle, and Tom Coppens. 2023. "Creating Flexible Plans for an Uncertain Future: From Exploratory Scenarios to Adaptive Plans With Real Options." *Planning Theory & Practice*: 1-20.
2. Goodspeed, Robert, Kidus Admassu, Vahid Bahrami, Tierra Bills, John Egelhaaf, Kim Gallagher, Jerome Lynch, Neda Masoud, Todd Shurn, Peng Sun, Yiyang Wang, and Curt Wolf. 2023. "Improving Transit in Small Cities Through Collaborative and Data-Driven Scenario Planning." *Case Studies on Transport Policy*, vol. 11, March 2023.
3. Goodspeed, Robert, Runzi Wang, Camilla Lizundia, Lingxiao Du, and Srishti Jaipuria. "Incorporating Water Quality Into Land Use Scenario Analysis with Random Forest Models." *Environment and Planning B: Urban Analytics and City Science*, published online ahead of print, 2022.
4. Avin, Uri, Robert Goodspeed, and Lily Murnen. "From Exploratory Scenarios to Plans: Bridging the Gap." *Planning Theory & Practice*, vol. 23, no. 4, 2022, p. 637-646.
5. Avin, Uri and Robert Goodspeed. "Using Exploratory Scenarios in Planning Practice." *Journal of the American Planning Association*, vol. 31, no. 1, 2020, p. 171-173.
6. Goodspeed, Robert, Christina Babbitt, Ana Lucia Garcia Briones, Emily Pfeleiderer, Camilla Lizundia, and Colleen M. Seifert. "Learning to Manage Common Resources: Stakeholders Playing a Serious Game See Increased Interdependence in Groundwater Basin Management." *Water*, vol. 12, no. 7, 2020, p. 1966.
7. Goodspeed, Robert, Anikka Van Eyl, and Lynn Vaccaro. "Analyzing Stakeholder's Perceptions of Uncertainty to Advance Collaborative Sustainability Science: Case Study of the Watershed Assessment of Nutrient Loads to the Detroit River Project." *Environmental Impact Assessment Review*, vol. 72, 2018, pp. 45-156.
8. Goodspeed Robert and Cassie Hackel. "Lessons for Developing a Planning Support System Infrastructure: The Case of Southern California's Scenario Planning Model." *Environment and Planning B: Urban Analytics and City Science*, vol. 46, no. 4, 2017, pp. 777-796.
9. Goodspeed, Robert. "Digital Knowledge Technologies In Planning Practice: From Black Boxes to Media for Collaborative Inquiry." *Journal of Planning Theory & Practice*, vol. 17 no. 4, 2016, pp. 577-600.
10. Goodspeed, Robert, Catherine Riseng, Kevin Wehrly, Wenting Yin, Lacey Mason, and Benjamin Schoenfeldt. "Applying Design Thinking Methods to Ecosystem Management Tools: Creating the Great Lakes Aquatic Habitat Explorer." *Marine Policy*, vol. 69, 2016, pp. 134-145.
11. Goodspeed, Robert. "Sketching and Learning: A Planning Support System Field Study." *Environment and Planning B*, vol. 43, no. 3, 2016, pp. 444-463.

Emerging Technologies and Practices

12. Goodspeed, R., T. Xie, T. R. Dillahunt, and J. Lustig, J. "An Alternative to Slow Transit, Drunk Driving, and Walking in Bad Weather: An Exploratory Study of Ridesourcing Mode Choice and Demand." *Journal of Transport Geography*, vol. 79, 2020, 102481.
13. Goodspeed, Robert. "Participatory E-Planning with Civic Crowdfunding: Donor Background, Involvement, and Social Capital Outcomes." *International Journal of E-Planning Research*, vol. 8, no. 2, 2019, pp. 68-87.

14. Goodspeed, Robert. "Smart Cities: Moving Beyond Urban Cybernetics to Tackle Wicked Problems." *Cambridge Journal of Regions, Economy, and Society*, vol. 8, no. 1, 2015, pp. 79-92.

Urban Informatics

15. Goodspeed, Robert, Ruoshui Liu, Dimitrios Gounaridis, Camilla Lizundia, Joshua Newell. "A Regional Spatial Planning Model for Multifunctional Green Infrastructure." *Environment and Planning B*, vol. 49, 2022, no. 3, p. 815-833.
16. Goodspeed, Robert, Elizabeth Benton, and Kyle Slugg. "Eviction Case Filings and Neighborhood Characteristics in Urban and Rural Places: A Michigan Statewide Analysis." *Housing Policy Debate*, vol. 31, 2021, no. 3-5, p. 717-735.
17. Gounaridis, Dimitrios, Joshua P. Newell, and Robert Goodspeed. "The Impact of Urban Sprawl on Forest Landscapes in Southeast Michigan, 1985-2015." *Landscape Ecology*, vol. 35, no. 4, 2020, p. 403-416.
18. Vydiswaran, V. G. Vinod, Daniel M. Romero, Xinyan Zhao, Deahan Yu, Iris Gomez-Lopez, Jin Xiu Lu, Bradley E Iott, Ana Baylin, Erica C. Jansen, Philippa Clarke, Veronica J. Berrocal, Robert Goodspeed, and Tiffany C. Veinot. "Uncovering the Relationship between Food-related Discussion on Twitter and Neighborhood Characteristics." *Journal of the American Medical Informatics Association*, vol. 27, no. 2, 2019, pp. 254-264.
19. Goodspeed, Robert, Xiang Yan, Jean Hardy, V.G. Vinod Vydiswaran, Veronica J. Berrocal, Philippa Clarke, Daniel M. Romero, Iris N. Gomez-Lopez, and Tiffany C. Veinot. "Comparing the Data Quality of GPS Devices and Smartphones for Assessing Relationships between Place, Mobility, and Health: A Field Study." *JMIR mHealth*, vol. 6, 2018, p. e168.
20. Shen, Ying, Philippa Clarke, Iris N. Gomez-Lopez, Alex B. Hill, Daniel M. Romero, Robert Goodspeed, Veronica J. Berrocal, V.G. Vinod Vydiswaran, and Tiffany C. Veinot. "Using Social Media to Assess the Consumer Nutrition Environment: Comparing Yelp Reviews with A Direct Observation Audit Instrument for Grocery Stores." *Public Health Nutrition*, vol. 22, no. 2, 2019, pp. 257-264.
21. Jean Hardy, Tiffany C. Veinot, Xiang Yan, Veronica J. Berrocal, Philippa Clarke, Robert Goodspeed, Iris N. Gomez-Lopez, Daniel Romero, and V.G. Vinod Vydiswaran. "User Acceptance of Location-Tracking Technologies in Health Research: Implications for Study Design and Data Quality." *Journal of Biomedical Informatics*, vol. 79, 2018, pp. 7-19.
22. Iris Gomez-Lopez, Philippa Clarke, Alex B. Hill, Daniel M. Romero, Robert Goodspeed, Veronica J. Berrocal, V.G. Vinod Vydiswaran, and Tiffany C. Veinot. "Using Social Media to Identify Sources of Healthy Food in Urban Neighborhoods." *Journal of Urban Health*, vol. 94, 2017, pp. 429-436.
23. Goodspeed, Robert. "Research Note: An Evaluation of the Elo Algorithm for Pairwise Visual Assessment Surveys." *Landscape and Urban Planning*, vol. 157, 2017, pp. 131-137.
24. Goodspeed, Robert. "From Public Records to Open Government: Access to Massachusetts Municipal Geographic Data." *URISA Journal*, vol. 23, no. 2, 2011, pp. 21-32.

Peer-Reviewed Published Conference Papers (selected)

Vydiswaran, V.G.Vinod, Daniel M. Romero, Xinyan Zhao, Deahan Yu, Iris Gomez-Lopez, Jin Xiu Lu, Bradley Iott, Ana Baylin, Philippa Clarke, Veronica Berrocal, Robert Goodspeed, and Tiffany Veinot. "Bacon Bacon Bacon': Food-related Tweets and Sentiment in Metro Detroit." In Proceedings of the 12th International AAAI Conference on Web and Social Media (ICWSM), 2018.

Goodspeed, Robert. "The Limited Usefulness of Social Media and Digital Trace Data for Urban Social Research." *When the City Meets the Citizen Workshop, Seventh International AAAI Conference on Weblogs and Social Media*. 2013, Cambridge, MA. AAAI Technical Report WS-13-04.

Goodspeed, Robert, Christian Spanring, and Timothy Reardon. "Crowdsourcing as Data Sharing: A Regional Web-based Real Estate Development Database." *6th International Conference on Theory and Practice of Electronic Governance*. 2012, Albany, NY. New York, NY: ACM, 460-463.

Reports

Varley, Ian, Robert Goodspeed, and John Egelhaaf. "Scenario Planning for Slow-Growing Regions: A Guidebook and Case Study," Working Paper, Lincoln Institute of Land Policy, 2022.

Benton, Elizabeth, Margaret Dewar, Robert Goodspeed, and Robert Gillett. *Reducing Michigan Evictions: The Pandemic and Beyond*. University of Michigan Poverty Solutions, 2021.

Goodspeed, Robert, Elizabeth Benton, Kyle Slugg, and Margaret Dewar. *Michigan Evictions: Trends, Data Sources, and Neighborhood Determinants*. University of Michigan Poverty Solutions, 2020.

Goodspeed, Robert, Lacey Sigmon, Douglas Plowman, and Seul Lee. *Innovative Planning in the U.S.: Engaging Communities to Build Better Places*. Future Watch Report, Team Finland (Tekes/FinPro), 2014.

Goodspeed, Robert, Arthur Prokosch, Catherine Riseng, Lacey Mason, and Kevin Werhly. *A Review of Great Lakes Web-Based Geospatial Information Tools*. Great Lakes Aquatic Habitat Framework Project, 2014.

Goodspeed, Robert. *Open Government Strategy for the City of Boston*. Mayor's Office of New Urban Mechanics, 2010.

Other Published Work

Goodspeed, Robert. "Book Review: Introduction to Urban Science: Evidence and Theory of Cities as Complex Systems." *Journal of the American Planning Association*, vol. 88, no. 4, p. 591-592.

Goodspeed, Robert. "Smart Cities in Community Development: From Participation in Cybernetics to Building Knowledge Infrastructures." *Housing Policy Debate*, vol. 31, no. 1, 2021, pp. 171-173.

Goodspeed, Robert. "Book Review: Urban Social Listening: Potential and Pitfalls for Using Microblogging Data in Studying Cities." *Journal of Urban Affairs*, vol. 41, no. 5, 2018, pp. 726-728.

Goodspeed, Robert. "Community and Urban Places in a Digital World." *City & Community*, vol. 16, 2017, pp. 9-15.

Goodspeed, Robert. "The Death and Life of Collaborative Planning Theory." *Urban Planning*, vol. 1, no. 4, 2016, pp. 1-5.

Goodspeed, Robert. "Urban Democracy, One Click at a Time?" *Planning & Technology Today*. APA Technology Division, Spring 2014, pp. 8-10.

Goodspeed, Robert. "Which Crowdsourcing?" *Planning & Technology Today*. APA Technology Division, Winter 2011, pp. 11-12.

Goodspeed, Robert. "Citizens Need Voice in Detroit Renewal." *The Detroit News*. June 2, 2011. Op-Ed.

Grants

Principle Investigator (with J. Schell, M. Steinberg, Y. Johnson, and J. Letaw), "Community-Centered Inquiry Into Racially Restrictive Covenants in Washtenaw County," UM Office of Vice President for Research, Research Catalyst and Innovation (RCI) Program Anti-Racism Grants, 9/1/23-11/1/24 (\$49,186).

Principle Investigator (with S. Mills, R. Kilpatrick, B. Oosterman, A. Brown and L. DuMouchel), "Catalyzing a Michigan Zoning Atlas," Taubman College Pressing Matters, 1/2023-12/2023 (\$19,981), Housing Next Matching Funding, AWD026154, (\$20,000).

Principal Investigator (2022-2023); Co-Investigator (2019-2021) (with J. Lynch, T. Bills, and P. Van Hentenryck), "SCC: Data-Informed Community Decision Making in Low-Income Communities for Resilient Mobility and Workforce Pipeline Solutions," National Science Foundation, 9/2018-8/2022 (\$1.4M). Transitions to Practice Supplement, 9/1/2022-8/31/2023, \$271,100.

Co-Investigator (with N. Love, L. Hoey, G. Thun and E. Lewis), "Planning Grant for Sociotechnical FEW Systems," UM Office of the Vice President for Research, Large-Scale Center and Initiative Planning Grant, 9/2021-8/2022 (\$100,000).

Co-Investigator (with J. Jones, C. Zimmerman, M. Countryman, M. Steinberg, and S. Ward), "Black Washtenaw County: Histories of Racial Segregation and Inequality and African-American Community Formation in Ypsilanti and Ann Arbor," LSA Humanities Collaboratory, 7/2021-7/2023 (\$536,869).

Co-Investigator (with R. Wang, Branko Kerkez, Joshua Newell, and Yang Chen), "Urban water quality management towards a sustainable framework— the investigation of finescale urban form effects on stream water quality," Graham Sustainability Institute, 6/2021-1/2022 (\$10,000).

Principal Investigator, "Michigan Evictions: Assessing Data Sources and Exploring Determinants," University of Michigan Poverty Solutions Initiative, 1/2019-12/2019 (\$24,208).

Co-Investigator (with J. Newell). "Expanding Green Infrastructure as a Response to Environmental Injustice and Climate Change," University of Michigan School for Environment and Sustainability McIntire-Stennis Research Program, 10/2018-9/2020 (\$140,000).

Principal Investigator, "The Impacts and Benefits of Scenario Planning in Professional Planning Practice," Lincoln Institute of Land Policy, 4/2019-9/2019 (\$15,000).

Principal Investigator, "Groundwater Game Research Collaboration," Environmental Defense Fund, 9/2017-8/2018 (\$15,500).

Principal Investigator, "An Evaluation Framework and Instruments for Scenario Planning," Lincoln Institute of Land Policy, 5/2017-8/2017 (\$5,822).

Principal Investigator, "The Adoption of Intelligent Planning Infrastructures: The Southern California Scenario Planning Model," University of Michigan Office of Research and Taubman College, 3/2016-5/2017 (\$6,990).

Principal Investigator, "From Social Vulnerability and Neighborhood Effects to Planning Knowledge: Tools for Considering Social Equity in Scenario Planning," The Lincoln Institute of Land Policy, 8/2015-9/2016 (\$44,000).

Co-Investigator (with T. Veinot, V. Berrocal, P. Clarke, and D. Romero). "A 'Big Data' Approach to Understanding Neighborhood Effects in Chronic Illness Disparities." UMOR/Rackham Social Sciences Annual Institute, MCubed Diamond/Sloan Foundation and Moore Foundation, 5/2015-4/2016. (\$109,777).

Principal Investigator, "Scenario Planning Laboratory Exercises and Scenario Guide," The Sonoran Institute, 7/2014-2/2015 (\$4,167).

Conference Director, “#micities: Technology Innovation in Michigan Municipalities and Beyond,” Small Grants for Major Conferences, University of Michigan Office of Research, 7/2014 (\$2,500); Dean’s Strategic Initiatives Fund, 7/2014 (\$500).

Principal Investigator, “Innovative Planning in the U.S.” Finpro-Finland Trade Center, 4/2014-6/2014 (\$16,128).

Co-Investigator (with C. Riseng, K. Wehrly, E. Rutherford, L. Wang, and L. Mason). “Assessing Information Needs and Developing Tools for Great Lakes Ecosystem Management.” University of Michigan Graham Sustainability Institute, 1/2014-8/2015 (\$214,602).

Online Publications

Goodspeed, Robert. *Planetizen*. Blog Posts. Available online at <https://www.planetizen.com/user/10085> (Invited Contributor).

“More Than Money: Civic Crowdfunding for Participatory Community Development” (with Katie Lorah). 8 Dec. 2015.

“The Democratization of Big Data.” 27 Feb. 2012.

“The Coming Urban Data Revolution.” 1 Sept. 2011.

“Knowledge Management for Planning Organizations.” 14 Feb. 2011.

“iPads for Planning?” 2 April 2010.

“The Future of American High Speed Rail: Regional and Slow.” 13 Nov. 2009.

“Open Data: Coming to a City Near You?” 19 Oct. 2009.

“An iPhone in the City.” 7 Sept. 2009.

“Census 2010: What’s Happening Now and What to Expect.” 20 July 2009.

“Making the Car Free Choice.” 25 July 2009.

“The New Normative Planning.” 10 June 2009.

“Why Is It So Hard to Build a Train?” 11 May 2009.

“A Twitter in the City.” 8 April 2009.

“Whither the Regional Planning?” 29 March 2009.

“Should the Internet Replace Newspapers for Public Notices?” 28 Sept. 2008.

“The Origin of New Urbanism’s Persistent Image Problem.” 7 Sept. 2008.

“Getting the Transportation Infrastructure We Need.” 6 June 2008.

“What Flavor of TEA Do You Want?” 28 March 2008.

“Smart Growth at the Grassroots, Part 2” 14 Feb. 2008.

“Smart Growth at the Grassroots, Part 1” 15 Jan. 2008.

“Considering a Smart Growth President.” 9 Dec. 2007.

“Whither the Region? Good Question.” 4 Nov. 2007.

“City Building the American Way.” 10 Aug. 2007.

“Where Are the Star Planners?” 9 July 2007.

“The Urban Freeway Conundrum.” 9 May 2007.

“How Can Planners Use the Web?” 7 April 2007.

“A Neotraditional Building Boom on Campus.” 9 March 2007.

“Public Library in Limbo in Washington, DC.” 22 Feb. 2007.

Selected Academic and Professional Conference Papers and Presentations

“Scenario Planning For Cities & Regions: The U.S. Perspective,” Keynote Address (virtual), at Challenges in Future Scenarios: Research for Mobility and Urban Planning, Universidad Politecnica de Madrid, February 22-23, 2024.

“Beyond the Basics: Blending Normative and Exploratory Scenario Planning,” Consortium for Scenario Planning, Portland, OR, 2 February 2024.

“Exploring the Urbanism of Platform Urbanism: The Digital Mediation of Urban Space and Social Relations,” presented at Computational Urban Planning and Urban Management, Montreal, Canada, June 2023.

“Justice InDeed: Exposing and Responding to Racially Restrictive Covenants in Washtenaw County,” Planning Law and Property Rights Conference, Ann Arbor, MI, May 5, 2023.

“Understanding Evictions in Michigan: The Data, Causes, and Responses. Michigan Coalition Against Homelessness Webinar, 13 September 2022.

“Managing and Envisioning Uncertain Urban Futures with Scenario Planning.” American Planning Association, National Planning Conference. 6 May 2021.

“Scenario Planning Methods for Latin American Spatial Planning.” Inter-American Development Bank, Regional Policy Dialog. 18 November 2020.

“Neighborhood Determinants of Eviction Filings: A Michigan Statewide Analysis.” Association of the Collegiate Schools of Planning Conference. 5 November 2020.

“Managing and Envisioning Uncertain Urban Futures with Scenario Planning.” University of Pennsylvania, Masters in Urban Spatial Analytics Lecture Series. 4 November 2020.

“Navigating Uncertain Futures with Scenario Planning.” Americans for the Arts Webinar. 7 October 2020.

“Towards Data-Driven Urban Transformation: Managing and Envisioning Uncertain Futures with Scenario Planning.” Columbia University Graduate School of Architecture, Planning, and Preservation, Lectures in Planning Series. 15 September 2020.

“Scenario Planning for Cities and Regions: Managing and Envisioning Uncertain Futures.” Delaware Valley Regional Planning Commission Futures Group. 16 June 2020.

“Defining and Evaluating Scenario Planning Success” and “Scenario Planning Basics: Reflecting on the Theory and Value of Scenario Planning.” *Consortium for Scenario Planning Conference*. Columbus, OH. 13 September 2019.

“Planning Sustainable Built Environments with Scenarios.” *Built Environment + Cities Lightning Talks, School for Environment and Sustainability*. Ann Arbor, MI. 27 February 2019.

“Can We Collaboratively Plan the Smart City?” *The Ohio State University City and Regional Planning 40th Anniversary Symposium*. Columbus, OH. 28 March 2019.

“Fostering Collaboration in Collaborative Groundwater Management through Serious Gaming.” *Water@Michigan Conference*. Ann Arbor, MI. 6 May 2019.

“Analyzing Stakeholder Uncertainty Perceptions to Advance Collaborative Sustainability Science: Case Study of the Watershed Assessment of Nutrient Loads to the Detroit River Project.” *Michigan University-Wide Conference on Sustainability*. Ann Arbor, MI. 15 February 2018.

“State of Scenario Planning Practice: Evaluation Framework & Educational Resources for Practitioners and Students.” *Consortium for Scenario Planning Annual Meeting*. Denver, CO. 8 November 2017.

“An Evaluation Framework for the Use of Scenarios in Urban Planning.” *Conference of the Association of Collegiate Schools of Planning*. Denver, CO. 12-15 October 2017.

“From Social Vulnerability and Neighborhood Effects to Planning Knowledge: Tools for Considering Social Equity in Scenario Planning.” *National Planning Conference*. New York, NY. 8 May 2017.

“Civic Crowdfunding: Internet Mobilization for Place-Based Collective Action.” *Conference of the Association of Collegiate Schools of Planning*. Portland, OR. 3 November 2016.

“Using Envision Tomorrow for Scenario Planning.” *Transportation Research Board Conference on the Use of Scenario Planning in Transportation*. Portland, OR. 16 August 2016.

“Civic Crowdfunding: Internet Mobilization for Neighborhood Collective Action.” *Michigan Interactive and Social Computing (MISC) Annual Retreat*. Ann Arbor, MI. 29 April 2016. Keynote Speaker.

"Tools for Considering Social Equity in Scenario Planning." *Open Scenario Planning Tools Symposium*. Austin, TX: Scenario Planning Apps Network. 20 November 2015.

"Tools for Collaborative Inquiry: Technology for More Intelligent Urban Planning." Center for Urban and Regional Analysis, The Ohio State University. Columbus, OH. 20 October 2015.

"Planning Support Systems as Pragmatic Tools of Inquiry." *Conference of the Association of Collegiate Schools of Planning*. Houston, TX. 24 October 2015.

"Advanced Concepts in Crowdsourcing and Civic Crowdfunding" and "Introduction to Design Thinking." *Geothink Summer Institute*. Waterloo, Ontario, Canada: University of Waterloo. June 2015.

"Disruptive Innovations in Transportation Infrastructure: A Framework for Stakeholder Identification," *Network on European Communications and Transport Activities Research (NECTAR)*. Ann Arbor, MI. 14 June 2015.

"Scenario Planning Curriculum Update." *Open Planning Tools Group Symposium*. Silver Spring, MD: Scenario Planning Apps Network. 11 November 2014.

"Paradigms for Information Technology Research in Planning." *Conference of the Association of Collegiate Schools of Planning*. Philadelphia, PA. 1 November 2014.

"Crowdsourcing Street Beauty: A New Method for Visual Preference Surveys." *Workshop on Big Data and Urban Informatics*. Chicago, IL: University of Illinois at Chicago. August 2014.

"Scenario Planning Tools: Introduction and Research." *National Planning Conference*. Atlanta, GA: American Planning Association. 28 April 2014.

"Scenario Planning Tools and Practice." *Moving Our Metro: Michigan Suburbs Alliance Conference and Annual Meeting*. Dearborn, MI. 15 November 2013.

"Local Public Health Information: Who Wants to Know What?" (with M. Arcaya, T. Reardon, K. Ito, J. Vogel, J. Buszkiewicz, T. Land, and W. Li). *141st American Public Health Association Annual Meeting*. Boston, MA. 6 November 2013.

"New Tools for Participation in Planning: Theory, Representation & Emerging Practices." *Planning: Is There an App For That? Arizona APA Professional Development Workshop*. Phoenix, AZ. 15 November 2013. Webinar presentation.

"The Spaces of Urban Planning: Workshops, GIS, and Cities." *Society for Social Studies of Science Annual Meeting*. San Diego, CA. 12 October 2013.

"Computer Modeling for Social Learning in Land Use Planning." *Association of Collegiate Schools of Planning Annual Conference*. Cincinnati, OH. November 2012.

"Five Questions about Online Participation in Planning (and Five Hypotheses)." *Tools for Engagement Workshop*. New York, NY: Regional Plan Association and Lincoln Institute of Land Policy. 29 March 2012.

"Crowdsourcing Urban Planning?" *Virginia Tech Social Media for Planning Conference*. 22 April 2011. Pre-recorded webinar.

"Information Systems for Solving Wicked Urban Problems." *Urban Systems Collaborative Seminar Series*. 3 October 2011. Webinar presentation.

"Three 'Singular' Experiments in Participatory Democracy: Comprehensive Planning in Austin, Texas." *National Conference on Planning History*. Baltimore, MD: Society for American City and Regional Planning History. November 2011.

"The Dilemma of Online Participation: The Case of the Imagine Austin Comprehensive Plan." *Keeping up with Communication Technology: The Practical Use of Social Media*. Transportation Research Board Online Workshop. 21 September 2011. Webinar presentation.

"Rethinking the Urban Conversation: RethinkCollegePark.net." *National Conference on Planning History*. Oakland, CA: Society for American City and Regional Planning History. 17 October 2009.

"The Dilemma of Online Participation." *American Planning Association National Conference*. Boston, MA. 11 April 2011.

"Internet Participation in Planning: Historical Context and a Framework for Discussion." *Princeton Summit on City Planning, Civic Engagement, and the Internet*. Princeton, NJ: Center for Information Technology Policy, Woodrow Wilson School of Public and International Affairs. 30 April 2009.

"Online Citizen Media in Three Cities: ArborUpdate.com, DCist.com, RethinkCollegePark.net." *CitMedia@SPJ Workshop at the Society of Professional Journalists and National Journalism Conference*. Washington, DC. October 2007.

Other Presentations

"Civic Crowdfunding: Who Participates and Why?" Patronicity Webinar on *Harnessing Community Capital in an Era of Changing Tax Regulations*. 23 January 2018.

"Cultural Competency in Planning(?)." *People and Place*. Ann Arbor, MI: Cultural Competency Collective. 9 February 2016.

"Beyond Black Boxes: John Dewey as a Democratic STS Theorist." *University of Michigan STS Mini-Conference*. Ann Arbor, MI. 20 March 2015.

"What Can GIS Do for You?" *GIS Day*. Ann Arbor, MI. 19 November 2014.

"Civic Crowdfunding: A New Method of Participatory Community Development." *#micities 2014*. Ann Arbor, MI. 4 October 2014.

"Urban Neighborhood Mapping Sector Introduction." Presentation to Social Venture Fund, University of Michigan Stephen M. Ross School of Business. Ann Arbor, MI. January 20, 2014.

"Planning Support Systems for Scenario Planning." Presentation to City of Ann Arbor Planning & Development and Systems Planning Staff. Ann Arbor, MI. December 5, 2013.

"Embodied Computation for Social Learning: Findings from Field Research on Planning Support Systems." *Michigan Interactive & Social Computing Annual Retreat*. Ann Arbor, MI. 3 December 2013.

TEACHING

Courses Taught

A. Alfred Taubman College of Architecture and Urban Planning, University of Michigan

URP 506: Planning Methods – Quantitative Focus (Winter 2018, 2019, 2020, Fall 2020, 2021, 2022, 2023)

URP 535: Introduction to Urban Informatics (Fall 2017, 2019, Winter 2023)

URP 520: Introduction to Geographic Information Systems (Fall 2013, Winter 2014, Fall 2014, Winter 2015, Fall 2015, Fall 2016, Winter 2019, Winter 2020, Fall 2020)

URP 522: Collaborative Planning (Winter 2014, Fall 2014, Fall 2015, Fall 2016, Fall 2018, Fall 2019, Fall 2022, Winter 2024)

UP 529: Scenario Planning: Theory and Practice (Winter 2015, Winter 2016, Fall 2018, Fall 2021)

UP 529: Sustainability and Social Change (Winter 2016)

URP 603: Capstone Studio (Winter 2023)

Nexus, College of Engineering, University of Michigan

Scenario Planning for Urban Futures, three-day professional education short course, May 2023

Teaching Assistant, Department of Urban Studies and Planning, Massachusetts Institute of Technology

11.S952: Economic Development Tools and Techniques (Spring 2013)

11.220: Quantitative Reasoning and Statistical Methods for Planning I (Spring 2012)

11.520: Introduction to Spatial Analysis and Workshop in GIS (Fall 2011, Fall 2012)

11.201: Gateway to the Profession of Planning (Fall 2010)

MIT Graduate Teaching Certificate, 2011

Teaching Assistant, Department of Plant Science and Landscape Architecture, University of Maryland
LARC 160: Introduction to Landscape Architecture (Fall 2006, Spring 2007, Fall 2008, Spring 2008)

Instructor, Honors Program, College of Literature, Sciences and the Arts, University of Michigan
HON 135.006: Student Activism and Social Change (Winter 2004)

Thesis and Dissertation Committees

Ph.D. Advisor

Meixin Yuan, UM Urban and Regional Planning, 2020-present

Ph.D. Dissertation Committees, Member

Lucinda Li, UM College of Engineering, 2023-2024.

Gabe Draughton, UM College of Engineering, 2023-2024.

Kat Conedera, UM Urban and Regional Planning, 2022-present.

Shubhayan Ukil, UM Urban and Regional Planning, 2022-present.

Devin Gill, U-M School for Environment and Sustainability, 2022-present.

Jake Hawes, UM School for Environment and Sustainability, 2021-present.

Yuanqiu Feng, UM School for Environment and Sustainability, 2018-present.

Seulgi Son, UM Urban and Regional Planning, 2018-present.

Kidus Adamassu, UM College of Engineering, 2020-2022.

Michael Borsellino, UM Urban and Regional Planning, 2019-2021.

Susan Grasso, University of Delaware, Biden School of Public Policy & Administration, 2017-2021.

Daniel Phillips, UM School for Environment and Sustainability, 2019-2021.

Camille Barchers, Georgia Tech, School of City & Regional Planning, 2017-2020.

Tom Logan, UM College of Engineering, 2019.

Xiang Yan, UM Urban and Regional Planning, 2017-2019.

Youyang Hou, UM School of Information, 2016-2018.

External Ph.D. Examiner

Kristi Grišakov, Aalto University, Finland, 2024.

Alexi Neuvonen, Tampere University, Finland, 2022. (In-person PhD Opponent)

Mitchell Sutika Sipus, School of Design, Carnegie Mellon University, 2020.

Angela Rout, Computational Media Design, University of Calgary, 2020.

Master's Thesis Committees, Co-Chair

Stanley Scott Henry, School of Information, 2020.

Undergraduate Thesis Advisor

Julia Berg, UM Program in the Environment, 2017-2018.

SERVICE

Professional Memberships

American Institute of Certified Planners, 2017-present

American Planning Association, 2006-present
Executive Committee Member and Newsletter Editor, Technology Division, 2008-2015
Society for American City and Regional Planning History, 2007-2018
Urban and Regional Information Systems Association, 2010-2020

Academic Service

Service to the Association of Collegiate Schools of Planning (ACSP)

Member, Selection Committee, Donald Schön Award for Excellence in Learning from Practice, 2018-2020.

Organizer, pre-organized sessions and roundtables: “Scenarios and Urban Futures in Professional Practice” (2019), “Developing Academic Cross-Disciplinary Programs: Opportunities for Planning” (2017), “How Big Data Will Change Planning” (2016), “Plan-making Pedagogy and Technology” (2015), “STS and the City 1 – Artifacts in the Planning Process” (2014).

Session Discussant, “New Methods for Citizen Participation” (2015), “Methods for Housing, Community and Economic Development” (2014).

Member, Board of Directors. Computers in Urban Planning and Urban Management. 2018-present.

Ad-hoc reviewer for 93 journal articles (since 2013) for publication in *Journal of Planning Education and Research*; *Journal of the American Planning Association*; *Journal of Urban Affairs*; *Landscape and Urban Planning*; *GeoForum*; *Environment and Planning B*; *Journal of Urban Technology*; and *Computers, Environment and Urban Systems*, among others.

Ad-hoc reviewer of 18 research and book proposals (since 2013), for the National Science Foundation, Routledge, Elsevier, and the South Africa National Research Foundation, among others.

Professional Service

Member. American Institute of Certified Planners (AICP). 2017-present.

Board of Directors. Consortium for Scenario Planning. 2018-present.

Participant, “STAP Workshop on Scenario Planning for Project Design,” Scientific and Technical Advisory Panel (STAP) to the Global Environmental Facility (GEF), hosted by the United Nations Environment Program. 2022.

Board of Directors. PlaceMatters. Denver, CO. 2014-2018.

Site Planning Committee, POP-X Art Festival. Ann Arbor, MI: Ann Arbor Arts Center. 2015-2017.

Advisory Committee Member, On Board Project. Ferndale, MI: Michigan Suburbs Alliance, 2013-2014.

Legislative Committee Member. Boston, MA: Metropolitan Area Planning Council. 2010-2011.

Committees

University of Michigan

Faculty Budget Engagement Committee, 2022-2024.

Chair. *Urban Informatics Certificate Program, Faculty Committee*, 2015-present.

Chair. *#micities Conference Planning Committee*, 2014.

Chair. *#micities Conference Planning Committee*, 2016.

A. Alfred Taubman College of Architecture and Urban Planning, University of Michigan

Member. Urban Technology Working Group, 2020-present.
Chair. *Spatial Analysis Laboratory Faculty Ad-Hoc Committee*, 2014-2019.

Urban and Regional Planning Program, University of Michigan

Program Chair, 2023-present
Chair. Faculty Search Committee in Urban Data and Technology, 2022-2023.
Member, PhD in Urban and Regional Planning Admissions Committee, 2022-2023.
Member. Faculty Search Committee in Technology-Based Planning, 2019-2020.
Chair. *Learning Outcomes Development*, 2019-2021.
Member. *Master of Urban Planning Admissions Committee*, 2014-2016.
Member. *Curriculum Committee*, 2015-2016, 2017-2018, 2021.
Member. *Faculty Search Committee in Physical Planning*, 2015.
Member. *Research Committee*, 2014-2016, 2017-2018.
Member. *Diversity Committee*, 2017-2018.

MIT Department of Urban Studies and Planning

Member. *Faculty Search Committee in Technology, Media, and Community Development*, 2011-2012.
Chair. *Doctoral Research Seminar Planning Committee*, 2011-2012.
Chair. *Organizing Committee PlanningTech@DUSP Conference*, 2011.

University of Maryland Department of Urban Studies and Planning

Member. *Dean Review Committee*, School of Architecture, Planning, and Preservation, 2008
Member. *East Campus Redevelopment Community Review Steering Committee*, 2007-2008

Other University Service

Next House Graduate Resident Tutor. Cambridge, MA: Massachusetts Institute of Technology. 2010-2013.

HONORS & AWARDS

2022 ACSP Curriculum Innovation Award, *Scenario Planning*.
2023 North Campus Dr. Martin Luther King Jr. Spirit Award
Planetizen Top 25 Leading Thinker in Urban Planning Technology, 2011
Rappaport Public Policy Summer Fellowship, 2010
MIT Departmental Award for Contribution to Intellectual Life, 2010
MIT Presidential Fellowship, 2009-2010
University of Maryland Outstanding Master of Community Planning Student Award, 2008
University of Maryland Graduate Student Government Service Award, 2008
Winning Team Member, George Washington University Real Estate Case Competition, 2008
University of Michigan Student Leadership Legacy Award, 2004
University of Michigan James B. Angell Scholar, 2004
Gilder Lehrman Institute for American History Scholars Finalist, 2004
University of Michigan William J. Branstrom Freshman Prize, 2000