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ELIJAH KNAAP

appointments *University of California-Riverside, School of Public Policy, Center for Geospatial Sciences*
Postdoctoral Scholar. 2018 - Present.

University of Illinois at Chicago, Dept. of Urban Planning and Policy
Visiting Assistant Professor & Postdoctoral Research Associate. 2017 - 2018.

University of Maryland, Dept. of Urban Studies and Planning & School of Information Studies
Adjunct Faculty. 2017.

Enterprise Community Partners, Inc.
Bart Harvey Postdoctoral Research Fellow. 2016 - 2017.

University of Maryland National Center for Smart Growth Research and Education
Spatial Research Coordinator. August 2013–2016.
Graduate Research Assistant. August 2011–2013.

education *University of Maryland, Ph.D. in Urban Studies and Planning, October 2016*
Dissertation: “The Spatial Structure of Opportunity & The Location Dynamics of Housing Mobility Programs”
Committee: Casey Dawkins (advisor), Fred Ducca, Willow Lung-Amam, Kris Marsh, Rolf Pendall

University of Maryland, Master of Community Planning, May 2013

University of Maryland, B.A. Sociology, May 2011

publications *Journal Articles*

Nicholas Finio, Gerrit Knaap, Willow Lung-Amam, Casey Dawkins, & Elijah Knaap, “Metropolitan Planning in a Vacuum.” *Journal of Urban Affairs*. Under Review.

Willow Lung-Amam, Rolf Pendall & Elijah Knaap, “Mi Casa no es Su Casa: Transit-Induced Gentrification and the Fight for Equitable Development in an Inner-Ring, Immigrant Suburb.” *Journal of Planning Education & Research*. Under Review.

Willow Lung-Amam, Elijah Knaap, Casey Dawkins & Gerrit Knaap, “Opportunity for Whom? The Diverse Definitions of Neighborhood Opportunity in Baltimore.” *City & Community*. Forthcoming.

Elijah Knaap, The Cartography of Opportunity: Spatial Data Science for Equitable Urban Policy, *Housing Policy Debate* 27, no. 6 (November 2017): 913–940, doi:10.1080/10511482.2017.1331930.

Elijah Knaap et al., Polycentrism as a sustainable development strategy: empirical analysis from the state of Maryland, *Journal of Urbanism: International Research on Placemaking and Urban Sustainability* 9, no. 1 (January 2016): 73–92, doi:10.1080/17549175.2015.1029509.

Rolf Pendall et al., Driving to Opportunities: Voucher Users, Cars, and Movement to Sustainable Neighborhoods, *Cityscape* 17, no. 2 (2015): 57.

Sabyasachee Mishra, Timothy F. Welch, Paul M. Torrens, Cheng Fu, Haojie Zhu, & Eli Knaap, “A tool for measuring and visualizing connectivity of transit stop, route and transfer center in a multimodal transportation network.” *Public Transport*, Vol 7, pages 77–99. March 2015.

Rolf Pendall, Christopher Hayes, Arthur Taz George, Zach Mcdade, Casey Dawkins, Jae Sik Jeon, Elijah Knaap, Evelyn Blumenberg, Gregory Pierce, Michael Smart, “Driving to Opportunity : Understanding the links among transportation access, residential outcomes, and economic opportunity for housing voucher recipients.” *Urban Institute*, Technical Report, Washington D.C.. .

Manuscripts in Progress

Elijah Knaap & Nicholas Finio, “Machines Learn the Chicago School: A Spatiotemporal Markov Model of Gentrification & Neighborhood Change.” *In Progress*. .

Elijah Knaap, “Who Moves to Opportunity? Spatial Returns to Housing Assistance and the Effect of Specialized Mobility Programs.” *In Progress*. .

Elijah Knaap, “Housing Assistance in Black and White: A Discrete Choice Model of Residential Sorting in Housing Voucher Programs.” *In Progress*. .

awards Innovative Student Contribution to Planning Tools Award - Scenario Planning Applications Network (2015)

Outstanding Graduate Assistant Award - National Center for Smart Growth (2014)

Robert Janes Award for contribution to the field of Urban Studies - University of Maryland Dept. of Urban Studies and Planning (2012)

grants All S.T.A.R. fellowship, \$10,000 fellowship from the University of Maryland Graduate School

URSP Course Development, \$10,000 grant from UMD Department of Urban Studies and Planning. Course: Urban Planning Technology (with Chao Liu). 2012–2013.

URSP Course Development, \$10,000 grant from UMD Department of Urban Studies and Planning. Course: Intermediate Geographic Information Systems (with Chao Liu). 2013–2014.

- invited talks**
- “The Geography of Neighborhood Change: Poverty, Immigration and Gentrification.” Makeover Montgomery 3, Balancing Change in America’s Suburbs. May 4, 2016.
 - “The Promise and Challenge of Equitable Transit-Oriented Development in Diverse Suburbs.” Transit, Development, and Forme Urbaine: Washington et Paris, Washington, DC. October 18, 2014.
 - “Retail Location and Transit: An Econometric Examination of Retail Location in Prince George’s and Montgomery County.” Transit, Development, and Forme Urbaine: Washington et Paris, Paris, France. March 14, 2015.
- conference talks**
- “Machines Learn the Chicago School: Spatiotemporal Markov Models of Neighborhood Change.” Elijah Knaap & Nicholas Finio, Association of Collegiate Schools of Planning, Denver, Colorado. October, 2017.
 - “The Cartography of Opportunity: Spatial Data Science for Equitable Urban Policy.” Elijah Knaap, American Association of Geographers, Boston, Massachusetts. April, 2017.
 - “Who Moves to Opportunity? Residential Sorting Models from a Unique Housing Mobility Program in Baltimore.” Elijah Knaap, Association of Collegiate Schools of Planning, Portland, Oregon. November, 2016.
 - “Regional Planning, Access to Opportunity, & Freddie Gray: Lessons from Baltimore.” Gerrit Knaap, Elijah Knaap, Nick Finio, Casey Dawkins, Willow Lung-Amam, Association of Collegiate Schools of Planning, Portland, Oregon. November, 2016.
 - “Opportunity, Transportation, and Neighborhood Choice: A Quantitative Examination of Housing Voucher Use in Baltimore.” Elijah Knaap, Association of Collegiate Schools of Planning, Houston, Texas. October, 2015.
 - “Networks and Neighborhood Effects: The Role of Accessibility in Economic Mobility.” Elijah Knaap & Casey Dawkins, Federal Reserve System Community Development Research Conference, Washington D.C.. April 3, 2015.
 - “Improving Social and Economic Equity in Maryland.” Chao Liu, Elijah Knaap & Gerrit Knaap, 14th Annual New Partners for Smart Growth Conference Tech Fair, Baltimore, Maryland. January 3, 2015.
 - “Trajectories of Neighborhood Attainment: Evidence from MTO in Baltimore.” Elijah Knaap, Association of Collegiate Schools of Planning, Philadelphia, Pennsylvania. October, 2014.
 - “The Use and Misuse of Opportunity Maps.” Elijah Knaap & Chao Liu, Association of Collegiate Schools of Planning, Philadelphia, Pennsylvania. October, 2014.
 - “Identifying Maryland Transportation Place Types.” Chao Liu, Ting Ma, Elijah Knaap, & Gerrit Knaap, Association of Collegiate Schools of Planning, Philadelphia, Pennsylvania. October, 2014.

“Opportunity Mapping Tools to Improve Social and Economic Equity in Maryland.” Elijah Knaap, Chao Liu, & Gerrit Knaap, Makeover Montgomery II, Silver Spring, Maryland. October, 2014.

“Locating the Most Connected Transit Stop, Route, and Transfer Center: Tool for Users and Decision Makers.” Mishra, S., Welch, T. F., Torrens, P. M., Zhu, H., & Knaap, E., Transportation Research Board 93rd Annual Meeting, Washington D.C.. October, 2014.

“Opportunity Mapping: A Conceptual Analysis and Application to the Baltimore Metropolitan Area.” Chao Liu, Elijah Knaap & Gerrit Knaap, Annual Conference of the Association for Public Policy Analysis & Management, Washington D.C.. 2013.

“Opportunity Mapping: Concepts and Techniques.” Elijah Knaap, Chao Liu, & Gerrit Knaap, Joint Meeting of the Association of Collegiate Schools of Planning & Association of European Schools of Planning, Dublin, Ireland. 2013.

“Reclassification of Sustainable Neighborhoods: An Opportunity Indicator Analysis in Baltimore Metropolitan Area.” Chao Liu, Elijah Knaap, & Gerrit Knaap, Joint Meeting of the Association of Collegiate Schools of Planning & Association of European Schools of Planning, Dublin, Ireland. 2013.

“Economic Clusters and Transit Oriented Development: Two for the Price of One.” Elijah Knaap, Yi Niu, Chengri Ding, Sabyasachee Mishra, Tim Welch, Annual Meeting of the Association of Collegiate Schools of Planning & Association, Cincinnati, Ohio. 2012.

“Improving Opportunity Accessibility for Underserved Populations: A Sustainable and Equitable Economic Development (SEED) Initiative for the State of Maryland.” Chao Liu, Gerrit Knaap, Jason Sartori & Elijah Knaap, Annual Meeting of the Association of Collegiate Schools of Planning & Association, Cincinnati, Ohio. 2012.

courses taught

“GIS for Urban Planners.” Fall 2017. (Graduate)

“Smart Cities and Urban Data Science.” Spring 2017. (Graduate)

“Intermediate Geographic Information Systems; Co-Taught with Chao Liu.” Spring 2014. (Graduate)

“Urban Planning Technology; Co-Taught with Chao Liu.” Fall 2014. (Graduate)

“Urban Planning Technology; Co-Taught with Chao Liu.” Spring 2013. (Graduate)

public history

Selected media coverage

Baltimore’s Housing Voucher Program Almost Gets It Right - *CityLab*, January 5, 2016

Defining ‘opportunity’ in Baltimore - *The Baltimore Sun*, August 3, 2015

service

Service to the Profession

Steering Committee Member: Scenario Planning Applications Network. 2013–Present.

Member: American Sociological Association. 2015–Present.

Member: American Association of Geographers. 2013–Present.

Member: Association of Collegiate Schools of Planning. 2013–Present.

research
competencies

Computing Platforms

Substantial experience: R, Python, ArcGIS/QGIS, HTML5/CSS

Research/collaborative use: Javascript, Postgresql/PostGIS, D3, LaTeX, JQuery, STATA, SPSS, Git, Shell scripting

Planning Support Systems

Urban Data Science Toolkit, CommunityViz, EnvisionTomorrow+, SILO