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ELIJAH KNAAP

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

Enterprise Community Partners, Inc.

Bart Harvey Postdoctoral Research Fellow. 2016 - Present.

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, M.A. Sociology, May 2011

publications *Academic Publications*

Elijah Knaap, “The Cartography of Opportunity.” *Housing Policy Debate*. Conditionally Accepted.

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

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 et al., A tool for measuring and visualizing connectivity of transit stop, route and transfer center in a multimodal transportation network, *Public Transport* 7, no. 1 (2014): 77–99, doi:10.1007/s12469-014-0091-2.

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*. .

Willow Lung-Amam, Rolf Pendall & Elijah Knaap, “The Promise and Challenge of Equitable Transit-Oriented Development in Diverse Suburbs.” *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

- “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 Asso-

ciation 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, Gerit Knaap, Jason Sartori & Elijah Knaap, Annual Meeting of the Association of Collegiate Schools of Planning & Association, Cincinnati, Ohio. 2012.

- courses taught**
- “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.

- 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