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## ELIJAH KNAAP, PH.D.

**appointments** *University of Maryland, Dept of Urban Studies and Planning*  
Adjunct Faculty. 2016–Present.

*Enterprise Community Partners, Inc.*

Bart Harvey Postdoctoral Research Fellow. 2016–2017.

*University of Maryland, National Center for Smart Growth Research and Education*

Faculty Affiliate. September 2016–Present.

Spatial Research Coordinator. August 2013–2016.

Graduate Research Assistant. August 2011–2013.

*U.S. Department of Housing and Urban Development, Office of Policy Development & Research*

GIS Technician. 2011.

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

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

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, Christopher Hayes, Arthur Taz George, Zach Mcdade, Casey Dawkins, Jae Sik Jeon, Elijah Knaap, Evelyn Blumenberg, Gregory Pierce, Michael Smart, “Driving to Opportunities: Voucher Users, Cars, and Movement to Sustainable Neighborhoods.” *Cityscape*, Vol 17, Issue 2. .

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.. .

#### *General Audience Publications*

“Sandtown and Spatial Mismatch.” May 2016–Present. [knaapttime.com](http://knaapttime.com), Personal blog publishing original research and discussion in urban studies, housing policy, and data visualization.

“Assisted Housing and Spatial Opportunity.” December 2015–Present. [knaapttime.com](http://knaapttime.com), Personal blog publishing original research and discussion in urban studies, housing policy, and data visualization.

**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 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

“Smart Cities and Spatial Data Science.” Spring 2016. (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: ArcGIS/QGIS, R, Python, HTML5/CSS, Unix administration

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

*Planning Support Systems*

CommunityViz, UrbanSim, EnvisionTomorrow, SILO