Center for Geospatial Sciences Suite 159, Tomas Rivera Library 900 University Ave Riverside, CA 92505

240.441.2619 ek@knaaptime.com ₩ knaaptime.com 😯 @knaaptime ♥ knaaptime 🖸

## ELIJAH KNAAP

appointments	University of California-Riverside School of Public Policy & Center for Geospatial Sciences Postdoctoral Scholar	2018 -
	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 Professor	2016 - 2017
	Enterprise Community Partners, Inc. Knowledge, Impact, & Strategy Team	
	Bart Harvey Postdoctoral Research Fellow	2016 - 2017
education	Ph.D Urban Studies and Planning, University of Maryland	2016
	M.A Community Planning, University of Maryland	2013
	B.A Sociology, University of Maryland	2011
publications	Refereed Articles	

- Lung-Amam, Willow, Knaap, Elijah, Dawkins, Casey, and Knaap, Gerrit. 2018. Opportunity for Whom? The Diverse Definitions of Neighborhood Opportunity in Baltimore. City & Community (Forthcoming).
- Rey, Sergio, Knaap, Elijah, Han, Su, Wolf, Levi, and Kang, Wei. 2018. Spatio-temporal analysis of socioeconomic neighborhoods: The Open Source Longitudinal Neighborhood Analysis Package (OSLNAP). in: Proceedings of the 17th Python in Science Conference, pp.121-128. DOI: 10.25080/Majora-4af1f417-012.
- Knaap, Elijah. Nov. 2017. The Cartography of Opportunity: Spatial Data Science for Equitable Urban Policy. Housing Policy Debate 27(6), 913-940. DOI: 10.1080/ 10511482.2017.1331930.
- Knaap, Elijah, Ding, Chengri, Niu, Yi, and Mishra, Sabyasachee. Jan. 2016. Polycentrism as a sustainable development strategy: empirical analysis from the state of Mary-

- land. Journal of Urbanism: International Research on Placemaking and Urban Sustainability 9(1), 73–92. DOI: 10.1080/17549175.2015.1029509.
- Pendall, Rolf, Hayes, Christopher, George, Arthur, Dawkins, Casey, Jeon, Jae Sik, **Knaap**, **Elijah**, Blumenberg, Evelyn, Pierce, Gregory, and Smart, Michael. 2015. Driving to Opportunities: Voucher Users, Cars, and Movement to Sustainable Neighborhoods. *Cityscape* **17**(2), 57–87.
- Mishra, Sabyasachee, Welch, Timothy F. Torrens, Paul M. Fu, Cheng, Zhu, Haojie, and Knaap, Elijah. Mar. 2015. A tool for measuring and visualizing connectivity of transit stop, route and transfer center in a multimodal transportation network. *Public Transport* 7(1), 77–99. DOI: 10.1007/s12469-014-0091-2.
- Mishra, Sabyasachee, Welch, Timothy, Torrens, Paul, Zhu, Haojie, and **Knaap, Elijah**. 2014. Locating the Most Connected Transit Stop, Route, and Transfer Center: Tool for Users and Decision Makers. In: *Transportation Research Board 93rd Annual Meeting*. 14-5367.

## Manuscripts in Progress

- **Elijah Knaap**, Levi Wolf, Sergio Rey, Su Han & Wei Kang, "The Dynamics of Urban Neighborhoods: A Survey of Approaches for Modeling Socio-Spatial Structure." *Progress in Human Geography.* Under Review.
- 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.
- **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

- "Spatio-temporal Analysis of Socioeconomic Neighborhoods." Sergio Rey & Elijah Knaap, 17th Python in Science Conference, Austin, Texas. July, 2018.
- "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	UPP 461: GIS for Urban Planners	Fall 2017	
	URSP 688Y: Smart Cities and Urban Data Science	Spring 2017	
	URSP 688Q: Intermediate GIS (Co-Taught with Chao Liu)	Spring 2014	
	URSP 688G: Urban Planning Technology; (Co-Taught with Chao Liu)	Fall 2014	
	URSP 688G: Urban Planning Technology; (Co-Taught with Chao Liu)	Spring 2013	
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		
	Member: American Association of Geographers	2013 -	
	Member: Association of Collegiate Schools of Planning	2013 -	
	Member: American Sociological Association	2015 -	
	Member: Regional Science Association International	2018 -	
computing	Competencies		
	Substantial experience: Python, R, ArcGIS/QGIS, HTML5/CSS		
	Research/collaborative use: Javascript, Postgresql/PostGIS, D3, LaTeX, JQuery, STATA, SPSS, Git, Shell scripting		