

# Dillon Mahmoudi

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## Education

Ph.D.	2017	Portland State University, Urban Studies
GradCert	2016	Portland State University, Geographic Information Science
B.S.	2006	Georgia Institute of Technology, Computer Science

## Experience in Higher Education

2019 –	The Hilltop Institute, Faculty Fellow
2017 –	University of Maryland, Baltimore County, Assistant Professor, Geography and Environmental Systems
2009 – 2017	Portland State University, Graduate Research Assistant, Urban Studies
2004 – 2006	Georgia Institute of Technology, Research Assistant, Computer Science

## Professional Experience

2011 – 2017	City Observatory, Portland, Oregon, Senior Research Associate
2006 – 2009	National Instruments, Austin, Texas, eCommerce Product Manager
2004 – 2006	Georgia Tech Corporation, Atlanta, GA, Database Administrator
2003 – 2004	Microsoft, Dublin, Ireland, Software Automation Engineer
1999 – 2001	Microsoft, Redmond, Washington, Software Test Engineer Intern

## Honors Received

2017	Student Achievement Award for Community Engagement, College of Urban and Public Affairs, Portland State University
	Outstanding Teaching Award (Nominee), College of Urban and Public Affairs, Portland State University

## Research Support and/or Fellowships

### *Awarded*

2020	\$4,500, Dean's Research Fund, "The (Re)Segregation of Baltimore: Redlining, Reinvestment, and Relational Poverty," College of Arts, Humanities, and Social Science, UMBC, PI.
2018	\$16,000, Summer Faculty Research Fellowship (SRFF), "Narratives of Inequality: Visualizing a Segregated Baltimore, 1930-2018," College of Arts, Humanities, and Social Sciences, UMBC, Co-PI. Dena Aufseeser (Co-PI).
2018	\$6,000, Summer Faculty Fellowship (SFF), "Socio-Spatial Patterns of Urban Agriculture and Machine-Learning," Office of the Vice President for Research, UMBC, PI.
2015 – 2017	\$26,500, City Observatory Urban Form Grant, Co-PI.
2014 – 2015	\$25,000, City Observatory Open Innovation Grant, Co-PI.

*Not Awarded*

- Reapplying \$300,000, Advancing Informal STEM Learning, “RESTING SAFE: Collaborative Informal STEM Learning Between Researchers and Homeless Communities,” National Science Foundation, Co-PI. Christine Hawn (PI), Erin Goodling, Anthony Levenda, Melanie Malone.
- 2018 – 2019 \$5,000, American Psychology-Law Society Diversification of Psychology and Law Research Grant, Co-PI. Erika Fountain (Co-PI).

**Ph.D. Students***Current*

Ohad Paris; Karyn Tabor.

**Master’s Students**

† denotes Chair

*Graduated*

- 2020 Juan Cruz, “Grassroots Critical GIS: Opportunities And Barriers Facing An Immigrant Rights Organization.”
- 2019 Travis Lageman†, “Defining Baltimore’s Greenspace-Health Link in the Context of Redlining.”

*Current*

Alicia Sabatino†; Evan Thomas†, DW Rowlands†; Nava Rastegar†, Julian Holman.

**Undergraduate Students***Internship and Supervised Research*

- Rebecca Ferguson, Undergraduate Research Award, “Developing Community in South Baltimore,” Fall 2019.
- Uchenna Osia, Louis Stokes Alliances for Minority Participation, “Excavating Inequality with Big Data,” Summer – Fall 2019.

**Publications, Presentations, and Creative Achievements****Publications****Peer-Reviewed Works***Articles*

- 2020 Mahmoudi, Dillon, Amy Lubitow, and MacKenzie A. Christensen. “Reproducing spatial inequality? The sustainability fix and barriers to urban mobility in Portland, Oregon.” *Urban Geography*. doi:10.1080/02723638.2019.1698865 [↗](#)
- 2019 Levenda, Anthony M., and Dillon Mahmoudi. “Silicon Forest and Server Farms: The (Urban) Nature of Digital Capitalism in the Pacific Northwest.” *Culture Machine* 18: 1-14. [ScholarWorks@UMBC](#) [↗](#)

- 2016 Thatcher, Jim, David O'Sullivan, and Dillon Mahmoudi. "Data Colonialism through Accumulation by Dispossession: New metaphors for daily data." *Environment and Planning D: Society and Space* 34 (6): 990-1006. doi:10.1177/0263775816633195 [↗](#)
- Powe, Michael, Emily Talen, Jonathan Mabry, and Dillon Mahmoudi. "Jane Jacobs and the Value of Older, Smaller Buildings." *Journal of the American Planning Association* 82 (2): 1-14. doi:10.1080/01944363.2015.1135072 [↗](#)
- McClintock, Nathan, Dillon Mahmoudi, Michael Simpson, and Jacinto Pereira Santos. "Socio-spatial differentiation in the Sustainable City: A mixed-methods assessment of residential gardens in metropolitan Portland, Oregon, USA." *Landscape and Urban Planning* 148 (April): 1-16. doi:10.1016/j.landurbplan.2015.12.008 [↗](#)
- Mahmoudi, Dillon, and Anthony M. Levenda. "Beyond the Screen: Uneven Geographies, Digital Labour, and the City of Cognitive-Cultural Capitalism." *tripleC: Communication, Capital and Critique* 14 (1) (February): 99-120. doi:10.31269/triplec.v14i1.699 [↗](#)
- 2015 Levenda, Anthony M., Dillon Mahmoudi, and Gerald Sussman. "The Neoliberal Politics of 'Smart': Electricity Consumption, Data Analytics, and Ubiquitous Financialization." *Canadian Journal of Communication* 40 (4) (November): 615-636. doi:10.22230/cjc.2015v40n4a2928 [↗](#)
- 2013 Seltzer, Ethan, and Dillon Mahmoudi. "Citizen Participation, Open Innovation, and Crowdsourcing: Challenges and Opportunities for Planning." *Journal of Planning Literature* 28 (1) (February): 3-18. doi:10.1177/0885412212469112 [↗](#)

### Non-Peer-Reviewed Works

#### Book Reviews

- 2018 Mahmoudi, Dillon. "Review of *New Lines: Critical GIS and the Trouble of the Map* by Matthew W. Wilson." *Rhizomes* 34. doi.org/10.20415/rhiz/034.r02 [↗](#)
- 2017 Lubitow, Amy, and Dillon Mahmoudi. "Review of *Bike Lanes Are White Lanes: Bicycle Advocacy and Urban Planning* by Melody L. Hoffmann." *Urban Geography* 38 (6): 951-952. doi:10.1080/02723638.2016.1248884 [↗](#)

#### Journal Debates

- 2016 Attendees of the Revisiting Critical GIS Meeting. "Revisiting critical GIS." *Environment and Planning A* 48 (5) (May): 815-824. doi:10.1177/0308518X15622208 [↗](#)

#### Handbooks and Encyclopedias

- 2020 Mahmoudi, Dillon. 2020. "Critical Geographic Information Science." In *International Encyclopedia of Human Geography*, edited by Audrey Kobayashi, 2nd edition, 3:31–36. Thousand Oaks, CA: Elsevier. 10.1016/B978-0-08-102295-5.10530-X [↗](#)

#### Reports

- 2016 Lubitow, Amy, Dillon Mahmoudi, Emma Deppa, Santiago Mendez, Raquel Nasser Stevens, Nathan Rochester, Kylas Tompkins. December. "Understanding Spatial

*Equity in Portland, Oregon.* Prepared for the City of Portland.

Cortright, Joseph, and Dillon Mahmoudi. April. *"The Storefront Index."* City Observatory.

2014 Cortright, Joseph, and Dillon Mahmoudi. December. *"Lost in Place: Why the persistence and spread of concentrated poverty, not gentrification, is our biggest urban challenge."* City Observatory.

Project collaborator with Preservation Green Lab. May. *"Older, Smaller, Better: Measuring how the character of buildings and blocks influences urban vitality."* National Trust for Historic Preservation. *Executive Summary* [↗](#).

Cortright, Joseph, and Dillon Mahmoudi. May. *"Neighborhood Change, 1970 to 2010: Transition and Growth in Urban High Poverty Neighborhoods."* Impresa Consulting.

*Popular Press*

2018 Bhatt, Amy, and Dillon Mahmoudi. "White men may be biggest winners when a city snags Amazon's HQ2". *The Conversation*. <http://theconversation.com/> [↗](#)

**Works Submitted or In Preparation**

*Articles*

Submitted Mahmoudi, Dillon and Anthony Levenda. "Locating Digital Capitalism: The New Urban Frontier"

Mahmoudi, Dillon. "Value in Surveillance Capitalism: Labor, productive capital, and the need to realize profit"

Completed Mahmoudi, Dillon, David O'Sullivan and Jim Thatcher. "Dead Digital Labor: Historical Materialism and GeoJSON"

In Preparation Mahmoudi, Dillon and Taylor Shelton. "Doing Critical GIS." *ACME: An International Journal for Critical Geographies*.

Hawn, Christine L and Dillon Mahmoudi. "Mapping Citizen Science: Who does science?" (Working title). *ACME: An International Journal for Critical Geographies*.

Mahmoudi, Dillon. "The data colonization of the Global South through network infrastructures."

Fountain, Erika and Dillon Mahmoudi. "Mapping juvenile justice: Structural barriers and access to required probation programs." *American Journal of Community Psychology*.

Mahmoudi, Dillon and Mariya Shcheglovitova. "Assessing Green Infrastructure and Equity in Baltimore, Maryland"

Mahmoudi, Dillon. "Do More Trees Equals Less Crime? Considerations Environmental Justice Research"

Mahmoudi, Dillon. "Feminization of Software Labor: Segmentation, Bifurcation and Deskillling."

Mahmoudi, Dillon. "The Always Emerging Geography of Software Production."

Mahmoudi, Dillon and Greg Schrock. "The Changing Nature of High-Tech and I-Tech Industries."

Mahmoudi, Dillon, Greg Schrock, and Jason Jurjevich. "Using IPUMS in metropolitan analysis 1970-2020: a comparison of three methods."

## Presentations

### Conference Organization

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|------|--|
| 2019 | Doing Critical GIS, Baltimore, MD. April.  |
| 2016 | Space of Struggle: Radical Planning Mini-Conference, Portland, OR. November. Sponsored by <i>Critical Planning</i> and Planners Network. |
| 2015 | Critical Geographies Mini-Conference, Portland, OR. November.  |

### Conference Activity (Juried/Refereed)

#### *Invited*

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| 2019 | Mahmoudi, Dillon. October. "Mapping Capital: The Urban Frontier of Digital Capital." Dresher Center for the Humanities, University of Maryland, Baltimore County, Baltimore, MD. |
| 2019 | Mahmoudi, Dillon. September. "Digital Capital: Urbanization, Infrastructures, and Labor." Department of Geography, University of Oxford. Oxford, UK.                             |
| 2017 | Mahmoudi, Dillon. May. "Apologies for the Following Quantitative Data: Success and Failure in Data-Driven Projects." Resistance GIS. Portland, OR.                               |

### Conference Activity (Non-Juried/Refereed)

#### *Session Organization*

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| 2018 | "Mapping In/justice." April. Annual Conference of the American Association of Geographers (AAG). New Orleans, LA.<br><br>"Land, urbanization, and expropriation." April. Urban Affairs Association (UAA). Toronto, ON.   |
| 2017 | "Real Estate Technologies." April. Annual Conference of the American Association of Geographers (AAG). San Francisco, CA.  |
| 2016 | "Political Ecologies of Technology #aagPOET." April. Annual Conference of the American Association of Geographers (AAG). San Francisco, CA.<br><br>"Political Ecologies of Technology #dopePOET." February. Dimensions of Political Ecology (DOPE). Lexington, KY. |

#### *Panels & Round Tables*

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| 2020 | "Urban Geography Specialty Group Early Career Scholar Panel: Decolonizing urban geography through mixed methodologies?" April. Annual Conference of the American Association of Geographers (AAG). Denver, CO. |
| 2018 | "Critical Methods in Urban Planning." October. Annual Conference of the American Association of Geographers (AAG). Washington DC.  |

*Presentations*

- 2020 Mahmoudi, Dillon. April. "Land and Data: Rent, Value, and the Data Center REIT." Annual Conference of the American Association of Geographers (AAG). Denver, CO.
- (Discussant) Mahmoudi, Dillon. April. "Materializing Urban Infrastructures Session 2." Annual Conference of the American Association of Geographers (AAG). Denver, CO.
- (Discussant) Mahmoudi, Dillon. April. "Governance by Algorithm in Environment and Development." Annual Conference of the American Association of Geographers (AAG). Denver, CO.
- 2019 Mahmoudi, Dillon. September. "Infrastructures of Cognitive-Cultural Capitalism: Data extraction as new colonialism." Infrastructural Futures Across Cities of the Global North Workshop. Manchester, UK.
- Mahmoudi, Dillon. April. "Automating software production? Gender and new geographies." Annual Conference of the American Association of Geographers (AAG). Washington DC.
- (Discussant) Mahmoudi, Dillon. April. "Political Economies of Geolocation II." Annual Conference of the American Association of Geographers (AAG). Washington DC.
- Mahmoudi, Dillon and Anthony Levenda. July. "The Data Commodity and the Digital Urban Platform." Platform Urbanism Workshop. Manchester, UK.
- 2018 Mahmoudi, Dillon, and Carla Maria Kayanan. October. "In Consideration of the Digital: Five takeaways for Economic Development." Annual Conference of the American Collegiate Schools of Planning Congress (ACSP). Buffalo, NY.
- Mahmoudi, Dillon and Anthony Levenda. April. "Locating Digital Capitalism: The New Urban Frontier." Annual Conference of the American Association of Geographers (AAG). New Orleans, LA.
- Hawn, Chris L, Dillon Mahmoudi, and Caren Cooper. April. "Scaling up CPBR: Defining Communities of Interest, Rather Than Place, to Address Nationwide Environmental Justice Issues." Annual Conference of the American Association of Geographers (AAG). New Orleans, LA.
- Mahmoudi, Dillon. April. "Feminization of Software Labor: Segmentation, Bifurcation and Deskilling." Urban Affairs Association (UAA). Toronto, ON.
- 2017 Mahmoudi, Dillon. April. "Code Yourself To A Better Future: The Feminization of Software Labor." Annual Conference of the American Association of Geographers (AAG). Boston, MA.
- 2017 Lubitow, Amy, and Dillon Mahmoudi. April. "Barriers to Urban Mobility: An Engaged Methods for Vulnerable Populations." Annual Conference of the American Association of Geographers (AAG). Boston, MA.
- 2016 Mahmoudi, Dillon. November. "Making Software, Making Regions." Annual Conference of the American Collegiate Schools of Planning Congress (ACSP). Portland,

OR.

Mahmoudi, Dillon. June. "Labor Market Segmentation and Software Work." Annual Conference of the North American Regional Studies Association (RSA). Atlanta, GA.

Mahmoudi, Dillon. April. "Apologies for the Following Quantitative Data: Success and Failure in Data-Driven Projects." Annual Conference of the American Association of Geographers (AAG). San Francisco, CA.

Denham, Diana, Amy Coplen, Dillon Mahmoudi, Adam Brunelle and Nathan McClintock. April. "Urban agriculture and gentrification in sustainable cities: a case study from Montreal and Portland." Annual Conference of the American Association of Geographers (AAG). San Francisco, CA.

Mahmoudi, Dillon. March. "Regional Software Production and Economic Development: Portland, Seattle and Austin." Annual Conference of the Urban Affairs Association (UAA). San Diego, CA.

Levenda, Anthony and Dillon Mahmoudi. February. "The Third-Wave Urbanization of Nature: Political Ecology and Cognitive-Cultural Capitalism." Dimensions of Political Ecology (DOPE). Lexington, KY.

2015 Mahmoudi, Dillon. October. "Regional Software Production: Firms, Labor-Markets and Place." Annual Conference of the American Collegiate Schools of Planning Congress (ACSP). Houston, TX.

Mahmoudi, Dillon. April. "What's in a File Type? On Making Maps Critically by Deconstructing the Digital Map." Annual Conference of the American Association of Geographers (AAG). Chicago, IL.

Levenda, Anthony, Dillon Mahmoudi, and Gerald Sussman. April. "The Neoliberal Politics of 'Smart': Electricity Consumption, Data Analytics, and Ubiquitous Financialization." Annual Western Social Sciences Association. Portland, OR.

Howland, Steven and Dillon Mahmoudi. April. "Carsharing Access: Car2Go and Getaround in Portland, Oregon." Urban Affairs Association (UAA). Miami, FL.

Mahmoudi, Dillon. February. "The Role of ICTs in the Urbanization of Nature: Data Centers in Oregon." Dimensions of Political Ecology (DOPE). Lexington, KY.

2014 Mahmoudi, Dillon. October. "Open-Innovation in Software Production: Portland, Oregon." Annual Conference of the American Collegiate Schools of Planning Congress (ACSP). Philadelphia, PA.

2013 Mahmoudi, Dillon, and Greg Schrock. July. "High-Tech and I-Tech Revisited." Joint Association of European Schools of Planning/American Collegiate Schools of Planning Congress (AESOP/ACSP). Dublin, Ireland.

Mahmoudi, Dillon, and Joseph Cortright. April. "Metropolitan Patterns of Income Inequality: Off the Census Tract, on the Grid." Annual Conference of the American Association of Geographers (AAG). Los Angeles, CA.

2012 Mahmoudi, Dillon, and Ethan Seltzer. November. "Big Ideas: Crowdsourcing and Citizen Participation in Omaha, Nebraska." Annual Conference of the American

Collegiate Schools of Planning (ACSP). Cincinnati, OH.

### Other Professional Presentations

#### Panels

- 2020 "Company Towns: From Bethlehem Steel to Amazon." Baltimore Museum of Industry. Baltimore, MD (February 26).

### Media Activities

#### Interviews

- 2018 "Are Smartphones Speeding Up Gentrification?" *Governing Magazine*. Washington, DC (August 1).
- 2015 "Amerikas Stammesgebiete, Immer mehr US-Bürger leben unter Gleichgesinnten. Das verändert Amerika fundamental." *Süddeutsche Zeitung*. München, Germany. (November 30).
- "Imaginary Crisis: Is Gentrification A Myth?" Let Your Voice Be Heard, WHCR 90.3. Harlem, NY. (January 30).
- 2012 "(P)retirement's new frontier: Study focuses on city's young creatives – economic saviors or slackers?" *Portland Tribune*. Portland, OR (September 13).
- 2011 "How badass is your neighborhood?" KATU morning show. Portland, OR (April 28).

### Creative Achievements

#### Juried Works

##### Selected maps

- 2019 "The Portland Harbor Superfund Site and surrounding area." Map as Figure 1 in: Goodling, Erin. "Urban Political Ecology from Below: Producing a 'Peoples' History' of the Portland Harbor." *Antipode* (Online First).
- 2018 "Hot spot analysis." Map as Figure 2 in: McClintock, Nathan. "Cultivating (a) sustainability capital: Urban agriculture, ecogentrification, and the uneven valorization of social reproduction." *Annals of the American Association of Geographers* 108, no. 2 (2018): 579-590.

#### Non-Juried Works

##### Selected Maps

- 2016 **The Storefront Index**. City Observatory. April. Interactive Web Map. <https://www.cityobservatory.org/maps/storefronts/>
- 2014 **Lost In Place**. City Observatory. December. Interactive Web Map. <https://cityobservatory.org/maps/lostinplace/>
- 2013 **America's Top Artplaces 2013**. ArtPlace America. Print. <https://dillonm.io/articles/americanstopartplaces2013.pdf>
- 2011 **Portland Badassness Map**. March. Print. <https://dillonm.io/files/PortlandBadassnessMap2011March.pdf>

## Service to the Department, University, Community, and Profession

### Service to the Department

- 2019 Committee Member, GES Postdoctoral Fellow Search;



2018	Committee Member, GES Faculty Search;
2017 –	Committee Member, GES GIS Committee;
2017 –	Faculty Representative, GES Council of Majors;
2015	Student Representative, PSU USP Funding Task Force;
2013	Founder & President, PSU USP Urban Studies Student Group;
2012	PhD Representative, PSU USP Executive Committee;
2011	Representative-at-large, PSU USP Executive Committee;
2009 – 2010	Masters Representative, PSU USP Executive Committee.

### **Service to the University**

2019 –	Advisory Committee Member, Orser Center For the Study of Place, Community, and Culture.
2019	Co-facilitator, “Housing and Inequality in Mobtown” Faculty Working Group, Center for Social Science Scholarship.
2019	Faculty Collaborator, Inclusion Imperative Visiting Faculty Fellows, Dr. Tracy Perkins.
2014 – 2016	Organizing Member, PSU Graduate Employees Union.

### **Service to the Community**

2013 – 2015	Member, World Affairs Council Young Professionals Steering Committee
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### **Service to the Profession**

#### **Editor**

##### *Special Issues*

2020	“Doing Critical GIS,” <i>ACME: An International Journal for Critical Geographies</i> .
2019	“Technologies of Real Estate Speculation,” <i>Urban Geography</i> .

#### **Referee**

##### *Book Series*

University of Minnesota Press.

##### *Grants*

School of Emerging Technology, Towson University. Towson, Maryland.

Social Sciences and Humanities Research Council. Ottawa, Canada.

Center for Transportation, Equity, Decisions and Dollars, University of Texas, Arlington. Arlington, Texas.

##### *Journals*

*Annals of the American Association of Geographers*;

*Big Data and Society*;

*Challenges in Sustainability*;

*Environment and Planning A: Economy and Space*;

*Environment and Planning D: Society and Space*;

*Environmental Science & Policy*;

*Feminist Formations*;

*Feminist Review*;

*Growth and Change: A Journal of Urban and Regional Policy*;

*Journal of International Development;*  
*Imaginations: Journal of Cross Cultural Image Studies;*  
*Landscape and Urban Planning;*  
*Professional Geographer;*  
*Regional Studies;*  
*Reinvention: an International Journal of Undergraduate Research;*  
*tripleC: Communication, Capital, Critique;*  
*Urban Geography;*  
*Urban Planning.*

**Memberships**

2016 – Regional Studies Association;  
Union for Radical Political Economics;  
2014 – Canadian Association of Geographers - L'Association Canadienne des Géographes.  
2012 – Urban Affairs Association;  
American Association of Geographers;  
2011 – American Collegiate Schools of Planning.