

EDUCATION

- 2019 - 2023 **Massachusetts Institute of Technology**, Cambridge, MA
(Expected) Ph.D. in Urban Science and Policy, Department of Urban Studies and Planning
Thesis: "The Missing Link: A Network Approach to Regional Rental Markets"
Committee: Justin Steil (Chair, MIT), Ingrid Gould Ellen (NYU), Clio Andris (Georgia Tech)
- 2017 - 2019 **Massachusetts Institute of Technology**
Master in City Planning
- 2011 - 2015 **Tufts University**, Medford, MA
B.S. in Physics & Peace and Justice Studies, *summa cum laude*
- 2022 **Santa Fe Institute**, Graduate Workshop in Computational Social Science,
- 2013 **Tufts-in-Chile Program**, Santiago, Chile
Pontificia Universidad Católica de Chile, Universidad De Chile

RESEARCH INTERESTS

- Interests: Regional housing markets, wealth inequality, urban and economic networks
Methods: Econometrics and statistics, network analysis, geospatial analysis

PUBLICATIONS

Peer Reviewed Articles

- 2022 **Preis, B.**, L. Susskind. "Municipal Cybersecurity: More Work Needs to be Done." *Urban Affairs Review* 58, no. 2 (March 2022): 614-629. doi: [10.1177/1078087420973760](https://doi.org/10.1177/1078087420973760)
- 2021 **Preis, B.**, A. Janakiraman, A. Bob, and J. Steil. "Mapping Gentrification and Displacement Pressure: An Exploration of Four Distinct Methodologies." *Urban Studies* 58, no. 2 (February 2021): 405-424. doi: [10.1177/0042098020903011](https://doi.org/10.1177/0042098020903011)

Journal Article Manuscripts in Preparation

bunten, dm., **B. Preis**, and S. Aron-Dine, "Gentrification: New Theory, Measurement, and Empirics," *Submitted*

Preis, B. "Network-based Approaches to Urban System Research," *Submitted*

Preis, B. "Where the Landlords Are: Identification of Regions and Megaregions through Rental Ownership" *Invited submission for forthcoming special issue of the Annals of AAG on Networks*

Preis, B. "Estimating the Effect of Transit Investment on Housing Prices in Santiago, Chile"

TEACHING

Department of Urban Studies and Planning, MIT

- 2021 **11.220** Quantitative Reasoning and Statistical Methods for Planning I, *Teaching Assistant*
- 2020 **11.S952** Urban Science in Practice, *Teaching Assistant*

RESEARCH EXPERIENCE

- 2020 - 2022 **Nowak Metro Finance Lab, Drexel University, *Research Fellow***
- Collaborated with Director Bruce Katz to develop strategies for increasing anchor institution and public authority procurement from local Black- and Latino-owned businesses
 - Wrote a series of reports on Black-owned businesses in the US, using Census Bureau data
- 2019 **Center for Public Studies, Santiago, Chile, *Visiting Research Assistant***
- Studied causal impact of immigrants on housing prices in Santiago, Chile during a recent wave of immigration using Chilean census data and parcel-level housing price transaction data
- 2018 - 2019 **Department of Urban Studies & Planning, MIT**
Master's Thesis
- Advisor: Lawrence Susskind. Reader: Sarah Williams.
- Case studies examining city-university partnerships on Smart City technology deployment
 - Developed 7 recommendations, and 14 action items, for enhanced private-public partnerships
- Computer Science and Artificial Intelligence Laboratory (CSAIL) Research Assistant*
- Advisor: Lawrence Susskind
- Analyzed 100+ current state and local regulations regarding cybersecurity for public entities
 - Recommended best practices for risk reduction and resilience prior to, and following cyberattacks on local governments, utilities, and other critical urban infrastructure providers
- 2017 - 2018 *Department of Urban Studies and Planning Research Assistant*
- Advisor: Lawrence Susskind
- Conducted qualitative research into MIT's community engagement practices
- 2014 - 2015 **Peace and Justice Studies Program, Tufts University, *Senior Honors Thesis***
- Advisor: Lionel McPherson, Philosophy. Reader: Tim Atherton, Physics.
- Senior Honors Thesis at the intersection of physics and philosophy, seeking to understand the role of government funding and justification in basic research in physics
 - Developed a framework justifying government funding, using economic and political theory
- 2014 - 2015 **Department of Physics, Tufts University, *Undergraduate Research Assistant***
- Advisor: Hugo Beauchemin
- Advanced work on a C++ program to model the creation of particles for use at CERN

SKILLS

Technical	<i>Advanced:</i> R RStudio ArcGIS	Language	English: Native fluency
	<i>Competent:</i> Python		Spanish: Professional & working fluency
	<i>Beginner:</i> PostgreSQL, PostGIS		

PRESENTATIONS

- 2018 **Preis, B., A. Bob, and A. Janakiraman.** "Mapping Gentrification and Displacement Pressure: An Exploration of Four Distinct Methodologies." American Collegiate Schools of Planning Annual Conference (ACSP). Buffalo, New York. Oct 25 - 28.
- 2015 **Preis, B.** "The Importance of Science Policy and its Challenges," American Physical Society, San Antonio, TX, March. (Unable to present)

RELEVANT WORK EXPERIENCE

- 2018 **Urban Redevelopment Authority of Pittsburgh**, Pittsburgh, PA, *Graduate Housing Intern*
- Researched best practices & recommend activities for the \$10M Housing Opportunity Fund
- 2018 **Cambridge Housing Authority**, Cambridge, MA, *Research Associate Intern*
- Designed a comprehensive economic mobility pilot program focusing on homeownership assistance for residents of Cambridge public housing
- 2015 - 2017 **Lewis-Burke Associates**, Washington, DC, *Government Relations Associate*
- Developed & executed strategies to advocate for clients' priorities with federal policymakers in Congress and in the Executive branch in the fields of smart cities, energy, engineering, and the physical sciences
- 2014 **U.S. House of Representatives, Rep. Bill Foster**, *AIP Mather Science Policy Intern*
- Wrote & researched memoranda relating to science policy, foreign policy, & financial services

FELLOWSHIPS AND GRANTS

- 2022 **Harold Horowitz Research Fund**, MIT School of Architecture and Planning (\$1,488)
Sagalyn-Hack Dissertation Award, MIT Department of Urban Studies and Planning (\$2,000)
- 2019 **Lloyd and Nadine Rodwin Fund**, MIT Department of Urban Studies and Planning (\$850)
Presidential Fellowship, MIT (\$86,000)
Carrol L. Wilson Prize, MIT (\$2,250)
- 2018 **National Science Foundation Graduate Research Fellowship** (\$138,000, through 2023.)
William Emerson Travel Grant, MIT Department of Urban Studies and Planning (\$750)

AWARDS AND HONORS

- 2018 **Dolores Zohrab Liebmann Fund**, MIT Nominee (Unawarded)
- 2015 **Sigma Pi Sigma**, Undergraduate Physics Honor Society, Tufts University
Phi Beta Kappa, Tufts University
Class of 1898 Prize, Tufts University
Marshall Hochhauser Prize, Tufts University

SERVICE

- Reviewer** *Environment and Planning: A; Environment and Planning B; Urban Studies; Urban Affairs Review; Projections*
- Member** PhD Committee, MIT DUSP (2020 -)
DUSP Student Council, MIT (2018 - 2019)
PhD Admissions, Urban Information Systems, MIT DUSP (2022)
- Mentor** Peer Application Support Service (PASS) (2018, 2019, 2020, 2021)

SOCIETIES

Association for Public Policy Analysis and Management (APPAM)
American Planning Association (APA)
Association of Collegiate Schools of Planning (ACSP)
The American Real Estate and Urban Economics Association (AREUEA)