

TIMOTHY J. PRESTBY *curriculum vitae*

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Resources: [Portfolio](#) | [Twitter](#)
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Research Interests: Cartography, visual storytelling, user experience design

EDUCATION

- 2020- **Master of Science: Geography**
 Pennsylvania State University (PSU)
- 2020 **Bachelor of Science: Honors in Cartography and GIS**
 The University of Wisconsin-Madison (UW)

GRANTS

- 2019 **Prestby TJ.** Understanding Neighborhood Isolation through Big-Data Human Mobility Analytics. *Hilldale Undergraduate Grant.*

PUBLICATIONS

1. Gao S., Li M., Rao J., Mai G., **Prestby TJ**, Marks J., Hu Y. [Automatic urban road network extraction from massive GPS trajectories of taxis.](#)
2. Li B., Gao S., Liang Y., Kang Y., **Prestby TJ.**, Gao Y., and Xiao R. [Estimation of regional economic development indicator from transportation network analytics.](#) *Nature: Scientific Reports*
3. **Prestby TJ.**, App J., Kang Y., and Gao S. (2019). [Understanding Neighborhood Isolation through Spatial Interaction Network Analysis using Location Big Data.](#) *Environment and Planning A: Economy and Space*

PRESENTATIONS

1. **Prestby TJ.**, Hart D. (co-presenter), Roth RE. (co-presenter). 2020: February 3. Designing Coastal Web Atlases: Best Practices and Future Directions. *Social Coast Forum 2020*. Charleston, South Carolina: February 6.
2. **Prestby TJ.** (presenter), App J., Kang Y., and Gao S. 2020. Visualizing Neighborhood Isolation by Spatial Interaction Network Analysis. *American Association of Geographers Annual Meeting*. Denver, Colorado: Canceled.
3. **Prestby TJ.** (presenter), Gao S., Liang Y., Kang Y., and Li B. 2019. Linking Traffic Volume to Economic Development Index Using Big Data and Gravity Models. *American Association of Geographers Annual Meeting*. Washington, DC: April 4.

WORK EXPERIENCE

- 2020 – PSU-Geography Department: *Research Assistant*
- Determined appropriate representation techniques for spatial data
 - Evaluated UI/UX design of Beescape interactive application
- 2019 – UW Seagrant: *Graphic Designer/Research Assistant*
- Developed conceptual framework for a set of ESRI storymaps
 - Created an ESRI story map in collaboration with two engineers and an outreach director for science communication
- 2018 – UW Cartography Lab: *Web Designer*
- Formatted the production, research, and people pages of the UW Cartography Website using responsive web design standards
 - Launched over 20 education pages showcasing student works
 - Wrote and designed two long-form infographic story maps
- 2020 UW-Geography Department: *Teaching Intern*
- Assisted teaching lab section for [Interactive Cartography and Geovisualization](#), an advanced course on interactive map design
 - Wrote curriculum chapter on [Collaborating with Github](#)
 - Held office hours and helped debug students' code
- 2018 – 2020 UW-Madison GeoSpatial Data Science Lab: *Student Researcher*
- Created visualizations for 3 geospatial research projects
 - Developed more than 15 python scripts for geocomputation
 - Proofread 10 geospatial papers for academic journal submissions

SKILLS

Cartography/Graphic Design: Adobe Illustrator, Photoshop, Indesign, Mapbox Studio

Web Development: HTML, CSS, Javascript, Bootstrap jQuery, Leaflet, D3, GIT

Data Analysis/GIS: QGIS, ArcGIS, Python, Pandas, R, Excel

Language: Intermediate Spanish

AWARDS and HONORS

2020	Olmstead Award: Awarded for my excellence and service in the cartography/GIS department at UW-Madison
2019	Barbara Bartz Petchenik Award: Received first place for my merit in cartographic design principles, thought, and outcome
2019	WLIA Map and Poster Competition: Received first place student thematic map and keynote's choice awards
2019	Jerome Kohn Award: Awarded for my passion and excellence in geography with an emphasis in cartography
2019	Phi Beta Kappa: Selected for my outstanding academic achievement at UW-Madison and my record of having met high standards of personal conduct and academic integrity
2017-2019	Community Environmental Scholar: Awarded for my passion for the environment, service to others, and leadership
2016-2020	UW-Madison Dean's List: Received for maintaining high GPA

PROFESSIONAL MEMBERSHIPS

2019–	Association of American Geographers (AAG)
2019–	Cartography Specialty Group of the Association of American Geographers (AAG-CSG)
2019–	North American Cartographic Information Society (NACIS)