

# 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. Roth RE, Sack CM, G Baldrice-Franklin, Y Chen, R Donohue, **T Prestby**, R Tolochko, and N Underwood. 2020. [Web Mapping: A Workbook for Interactive Cartography and Visualization on the Open Web. Version 0.1.](#) *University of Wisconsin Cartography Laboratory*
2. Gao S, M Li, J Rao, G Mai, **T Prestby**, J Marks, and Y Hu. 2020. [Automatic urban road network extraction from massive GPS trajectories of taxis.](#)
3. Li B, S Gao, Y Liang, Y Kang, **T Prestby**, Y Gao, and R Xiao. 2020. [Estimation of regional economic development indicator from transportation network analytics.](#) *Nature: Scientific Reports*
4. **Prestby T**, J App, Y Kang, and S Gao. 2019. [Understanding Neighborhood Isolation through Spatial Interaction Network Analysis using Location Big Data.](#) *Environment and Planning A: Economy and Space*

## PRESENTATIONS

1. **Prestby T**, D Hart (co-presenter), RE Roth (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 T** (presenter), J App, Y Kang, and S Gao. 2020. Visualizing Neighborhood Isolation by Spatial Interaction Network Analysis. *American Association of Geographers Annual Meeting*. Denver, Colorado: Canceled.
3. **Prestby T** (presenter), S Gao, Y Liang, Y Kang, and B Li. 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

- 08/2020 – PSU-Geography Department: *Research Assistant*
- Determined appropriate representation techniques for spatial data
  - Evaluated UI/UX design of Beescape interactive application
- 03/2019 – UW Seagrant: *Graphic Designer/Research Assistant*
- 09/2020
- Developed conceptual framework for a set of ESRI storymaps
  - Formulated and conducted an online survey through Qualtrics
  - Performed statistical and content analysis of 190 web applications
- 09/2018 – UW Cartography Lab: *Web Designer*
- 09/2020
- 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
- 12/2019 – UW-Geography Department: *Teaching Intern*
- 06/2020
- 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
- 09/2018 – UW-Madison Geospatial Data Science Lab: *Student Researcher*
- 09/2020
- Created visualizations for 3 geospatial research projects
  - Developed more than 15 python scripts for geocomputation
  - Proofread 10 geospatial papers for academic journal submission

## SKILLS

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

**Web Development:** HTML, CSS, JS, Bootstrap jQuery, Leaflet, D3, GIT, Angular, JSON

**Data Analysis/GIS:** QGIS, ArcGIS, Python, (Geo) Pandas, R, Excel

**Language:** Intermediate Spanish

## AWARDS and HONORS

2020	<b>Olmstead Award:</b> Awarded for my excellence and service in the cartography/GIS department at UW-Madison
2019	<b>Barbara Bartz Petchenik Award:</b> Received first place for my merit in cartographic design principles, thought, and outcome
2019	<b>WLIA Map and Poster Competition:</b> Received first place student thematic map and keynote's choice awards
2019	<b>Jerome Kohn Award:</b> Awarded for my passion and excellence in geography with an emphasis in cartography
2019	<b>Phi Beta Kappa:</b> 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	<b>Community Environmental Scholar:</b> Awarded for my passion for the environment, service to others, and leadership
2016-2020	<b>UW-Madison Dean's List:</b> 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)