



## 🎓 EDUCATION

### University of Wisconsin-Madison (UW-Madison)

(Madison, WI; Ongoing)

- **Ph.D.** Candidate in [Geography \(Cartography/GIS\)](#); Doctoral minor in [Computer Science](#); GPA: 3.7/4.0
- Graduate Member in [Spatial Computing and Data Mining \(SCDM\) Lab](#), UW Cartography Lab ([CartLab](#))
- Teaching Assistant: Cartography (including **3×** lecturer), Interactive Cartography & Geovisualization, Graphic Design, Geocomputing, GIS Application, GIScience; Project Assistant: [GIS Professional Programs](#) (curriculum revision)

### University of Georgia (UGA)

(Athens, GA, USA; 2017)

- **M.S.** in [Geography \(GIS\)](#); Graduate Member in [Urban Geospatial Analytics Lab](#), [Community Mapping Lab](#); GPA: 3.7/4.0
- Teaching Assistant: Transportation Modeling and GIS

### Sun Yat-sen University (SYSU)

(Guangzhou, China; 2015)

- **B.S.** in [GIScience](#) (Remote Sensing & GIS Engineering); Excellent Graduate; **3×** Excellent Scholarship; GPA: 3.8/4.0
- Undergraduate Research Assistant in Center of Integrated Geographic Information Analysis (CIGNA), Center for Historical Geography, Big Data Communication Lab

## 💼 EXPERIENCE

- Student Cartographer, UW Cartography Lab ([UWCL](#))(multiple client projects, website update)(2023-Present)
- Cartography Intern, [Apple Maps](#) (color refinement experiments, advancing new feature and internal resource)(2025)
- GIS Development Intern, United Nations Development Programme ([UNDP](#))(building [SIDS Geospatial Platform](#))(2021)
- GIS & Visualization Intern, Institute for Local Self-Reliance ([ILSR](#)), [Community Broadband Network](#) (67 maps)(2021)
- App Development Research Assistant, Carl Vinson Institute of Government ([CVIOP](#)), University of Georgia(2016-2017)

## ⚙️ SKILLS

- **Cartography:** ArcGIS (Pro, Online, Dashboards, StoryMaps) | Mapbox | Leaflet | D3 | Kepler.gl
- **Design:** Illustrator | Photoshop | InDesign | LEGO Studio | Blender | After Effect | Flash | CorelDraw
- **GIS & RS:** ArcGIS (Pro, Server, Engine) | QGIS | TransCAD | GeoDa | Envi | ERDAS | GE Engine
- **Development:** JavaScript | HTML | CSS | ASP.NET MVC | Android (Java) | C# | Visual Basic
- **Analysis:** Python | R | Java | Gephi | Postgres | SQL Server | MongoDB | AWS | SPSS | MATLAB

## 📘 MAP DESIGN (thumbnail images on next page)

- [ICA](#) (International Cartographic Association): **2×** Maps on ICC International Cartographic Exhibition ([ICE](#))(2023, 2025)
- [CaGIS](#) (Cartography and Geographic Information Society) [Map Design Competition](#): **1×** Winner (sole) of Arthur Robinson Static Print Map Award, **2×** Honorable Mention of David Woodward Digital Map Award (2021, 2023, 2025)
- [NACIS](#) (North American Cartographic Information Society) [Student Map and Poster / Dynamic Map Competition](#): **1×** Winner in Design (tied), **1×** Winner in Research (sole), **1×** Winner in Individual Dynamic Map (sole)(2023, 2024, 2025)
- [BCS](#) (British Cartographic Society) [Annual Award](#): **1×** Winner (Ordnance Survey Student Award)(sole), **2×** Highly Commended (Avenza Award for Electronic Mapping; Collins Bartholomew Award for Thematic Mapping), **1×** Commended (Garsdale Design Award for 3D Mapping)(2024, 2025)
- [Esri UC](#) (User Conference): **2×** Maps featured in Mappy Hour (2024, 2025); **1×** Map featured in Map Art Wall (2024)
- [Esri UC Plenary Session](#): **4×** Maps featured by President Jack Dangermond (2023, 2024, 2025)
- [Esri UC Map Gallery](#): **2×** Most Innovative Map (sole/first place), **1×** Best Cartography (sole), **1×** Best University and Postgraduate Student Map, **2×** Cartography Special Interest Group Excellence Award (1 of 3 recipients), **3×** Maps in finalists (Map with a Message, Innovative, Interactive)(2023, 2024, 2025)
- [WLIA](#) (Wisconsin Land Information Association) Map Contest: **4×** First Place (Thematic Map; 2× Black and White Map; Most Unique Map), **3×** Second Place (Reference Map; Mapping Poster; Thematic Map), **2×** Best Student Map (sole), **1×** Keynotes Choice of Static Map (sole); **1×** President's Choice (sole); **1×** People's Choice (sole)(2024, 2025)
- [Map Included in Publication](#): **1×** [Atlas of Design](#) (Vol. VII), **4×** [Esri Map Book](#) (Vol. 39; **2×** Vol. 40; Vol. 41), **1×** [Cartographic Perspectives](#) (cover page of Vol. 105), **1×** [Atlas at a Conference: Flow](#) (Guerrilla Cartography)(2024, 2025)
- [UW-Madison Digital Salon](#): **1×** Best in Show (2025), **2×** Honorable Mention (2023, 2024), **8×** Maps admitted (2021-2025)
- [IIB](#) (Information Is Beautiful) Award: **4×** Maps on Longlist (Places, Spaces & Environment; Unusual)(2025)

- **Other Competition:** Winner (sole) in Maps Group, Mapping Masterminds Competition, ISU GIS Day (2024); Winner (sole) in College Student Project, AGIC Symposium Maps and Apps Contest (2024); Winner (sole) in Student Artistic Group, GIS Colorado Mapping Contest (2024); 3rd Place in Student Group, GIS Certification Institute (GISCI) Map Contest (2023); 1st Prize in Web/Mobile Group, Esri Chinese College Student GIS Development Contest (2014)

## DIGITAL MAP / GIS DEVELOPMENT

- [Web GIS] The United States of Rising Hazards (geovisualization using ArcGIS JavaScript API) (2025)
- [Web/Mobile GIS] Madison Area and Wisconsin COVID-19 Pandemic Dashboard (over 80K visits, 3x on news) (2020)
- [Web GIS] Small Island Developing States Dashboard (Mapbox team project during UNDP internship) (2021)
- [Web GIS] U.S. Historical Hurricanes Geovisualization (Leaflet framework with jQuery, D3, turf libraries) (2019)
- [Web GIS] GNAHRGIS-Ecology Project (for Georgia Department of Natural Resources) (2017)  
Achieved advanced spatial query (ArcGIS Server API) using ASP.NET MVC, with SQL Server database
- [Mobile GIS] SYSU Campus Navigation (Android Application using ArcGIS SDK) (2014)

## RESEARCH (\*collaboration)

- Multimodal Social Media Data Mining and Visualizations For Hurricane (AAG 2025; UCGIS Symposium) (2023)
- Investigating Human Mobility During Pandemic: An Integrated Social Media Approach (AAG 2021) (2021)
- \*Emerging geo-data sources to reveal human mobility dynamics during COVID-19 pandemic (Springer) (2021)
- Framing Twitter Trajectory Visualization: A Comparative Case Study (IEEE VIS 2020 "MoVIS" Workshop) (2020)
- Adaptive Cartography in Natural Disaster Management: A Domain Gap Analysis (NACIS) (2020)
- \*Can We Forecast Presidential Election Using Twitter? An Integrative Model Approach (Annals of GIS) (2020)
- \*Male or Female? Evaluating Gender Representativeness of Twitter – A Case Study of Athens (UCGIS) (2020)
- Flight or Driving? Mining Transportation Mode in Hurricane Harvey Evacuation (AutoCarto 2020) (2019)
- \*Madison and Vicinity: A Tangible Map Quilt (Cartographic Perspectives) (2018)
- Examining Spatiotemporal Pattern in Evacuation Behavior during Hurricanes (AAG 2019, Springer) (2018)

## MISCELLANEOUS

- 16x guest talk: GIS Colorado, Colorado (Colorado Springs) ×2, UW-Madison ×2, SHNU (China), ECNU (China), Glasgow (UK) ×2, Emory, UT-Austin, Macau (China), Messiah, WisLUG, HKUST-GZ (China), City of Lawrenceville (2024-2025)
- 3x maps collected in library: Library of Congress, American Geographical Society Library, Robinson Map Library
- 16x maps featured on news reports (×11, reprints excluded), TV news (×2), and online articles (×6)
- 14x maps on public display in libraries, bookstore, museum, GIS Day events in WI, FL, and GA (2021-Present)
- 12x travel awards from NACIS, AAG SAM, UW-Madison and Geography Department (2019-2024)
- Co-Founder & Cartographer for Shanghai Dérive (2024-Present); Volunteer, Natural Earth (2023-Present)
- Scholarship for CaGIS & UCGIS Symposium, International Cartographic Association (ICA) (2024)
- Covid and News Cartographer, MADNEWS (largest local Chinese media platform; on WeChat) (2020-2023)
- 1st Place of Most Downloaded Paper Award; 3rd Place of Best Paper Award, Annals of GIS (3rd author) (2022)

## MINI PORTFOLIO (click thumbnails to view; more on CartoGuophy.com)

