



🎓 EDUCATION

University of Wisconsin-Madison (UW-Madison)

(Madison, WI; Ongoing)

- Pursuing Ph.D. in [Geography \(Cartography/GIS\)](#); doctoral minor in [Computer Science](#); **GPA: 3.7/4.0**
- Graduate Student Member in [Spatial Computing and Data Mining \(SCDM\) Lab](#), [UW Cartography Lab \(CartLab\)](#)
- Teaching Experience: Intro Cartography (8 times, including 3 lectureships, Interactive Cartography & Geovisualization (1 time), Geocomputing (1 time), GIS Applications (2 times), Intro GIScience (4 times)
- Project Assistant in [GIS Professional Programs](#) (cartography curriculum revision), [CartLab](#) (website and maps)
- Research Direction: Social Media Data Mining, Cartographic Visualization, Natural Disaster Management

University of Georgia (UGA)

(Athens, GA, USA; 2017)

- M.S. in [Geography \(GIS\)](#); **GPA: 3.7/4.0**
- Graduate Student Member in Urban Data Science Lab, [Community Mapping Lab](#)
- Research Assistant in App Dev Group, [IT Division](#), [Carl Vinson Institute of Government](#)
- Teaching Experience: Transportation Modeling and GIS (1 time)
- Research Direction: Location-based Social Media, Sentiment Analysis, Urban Spatiality, Electoral Geography

Sun Yat-Sen University (SYSU)

(Guangzhou, China; 2015)

- B.S. in [Geographic Information Science](#); **GPA: 3.8/4.0** (Excellent Graduate; 3 times of Excellent Scholarship)
- Undergraduate Research Assistant in Center for Historical Geography, Big Data Communication Lab, Center of Integrated Geographic Information Analysis (CIGNA)
- Research Direction: Public Opinion Geovisualization, Urban Ecology and Regional Planning, Historical GIS

📖 STATIC MAP DESIGN (thumbnails on the last page)

- 1st Place in Most Innovative Map; Best Cartography, [Esri UC](#) (2024)
- Cartography Special Interest Group Excellence Award, [Esri UC](#) (2024)
- 1st Place in Student Maps (University and Postgraduate Students), [Esri UC](#) (2024)
- Map Included in in "cARTography" [Map Art Wall](#), Esri User Conference (2024)
- 2 Maps Selected for Image Inclusion, [Jack Dangermond's Plenary Session](#) in Esri User Conference (2024)
- 1st Place / Winner, Student Artistic Section, [GISCO Mapping Contest](#) (2024)
- Map Selected for Publication, [Atlas of Design, Volume VII](#) (2024)
- 2nd Place (Honorable Mention; tie), [UW-Madison 15th Annual Digital Salon](#) (2024)
- 1st Place in Most Unique Map; Best Student Map; President Choice; People Choice, [WLIA Map Contest](#) (2024)
- 2nd Place in Thematic Map; Keynotes Choice (Static), [WLIA Map Contest](#) (2024)
- 1st Place in Black and White Map, [WLIA Map Contest](#) (2024)
- Map Selected for Publication, [Esri Map Book, Volume 39](#) (2024)
- 1st Place (Winner) in Cartographic Design (tied), [NACIS 2023 Student Map and Poster Competition](#) (2023)
- Most Innovative Map; Cartography Special Interest Group Excellence Award, [Esri UC](#) (2023)
- Map Selected for Image Inclusion, [Jack Dangermond's Plenary Session](#) in Esri User Conference (2023)
- 1st Place (Winner), Arthur Robinson Award for Best Printed Map, [50th CaGIS Map Design Competition](#) (2023)
- 3rd Place in Student Category, [GIS Certification Institute \(GISCI\) Map Contest](#) (2023)
- Map on Exhibition, [International Cartographic Exhibition](#) of International Cartographic Conference (2023)
- 2nd Place (Honorable Mention), [UW-Madison 14th Annual Digital Salon](#) (2023)
- Map Admitted, UW-Madison [15th](#) (2024), [14th](#) (2023), [12th](#) (2021) Annual Digital Salon
- Map Ranked Top 2% out of 600+ submissions, [Esri User Conference Map Gallery](#) (2020)

💻 GIS DEVELOPMENT (thumbnails on the last page)

- **[Web+Mobile]** Madison Area and Wisconsin COVID-19 Pandemic Dashboard (over 80K views) (2020 – 2023)
1st Place / Best Student Map in Interactive Map Category, [WLIA Map Contest](#) (2021)
Honorable Mention, David Woodward Award for Best Digital Map, [48th CaGIS Map Design Competition](#) (2021)
Over 80K total views (Web/Mobile); Endorsed by [UW Data Science](#), [WLIA](#), [Esri Covid Map Gallery](#) (2021)
Reported and reprinted by multiple news on 10/10 ([Channel 3000](#)), 10/27 ([FOX47](#)), 11/9 ([Badger Herald](#)) (2020)
- **[Web]** [Small Island Developing States Geospatial Dashboard](#) (Mapbox team project during UN intern) (2021)
- **[Web]** [U.S. Historical Hurricanes Geovisualization](#) (Leaflet framework with jQuery, D3, turf libraries) (2019)

- [Web] [GNAHRGIS-Ecology Project](#) (Georgia Department of Natural Resources) (2016 – 2017)
Achieved advanced spatial query (ArcGIS Server API) in ASP.NET MVC, with SQL Server, jQuery, Dojo
- [Desktop] Automatic Typhoon Recognition & Integrated 2D/3D Visualization (ArcGIS Engine, C#.NET) (2015)
- [Mobile] SYSU Campus Navigation (Android App using ArcGIS SDK; in [Wandoujia App Store](#)) (2014)
1st Prize in Web/Mobile Group, [Esri Chinese College Student GIS Development Contest](#) ([campus news](#)) (2014)
- [Desktop] Cellular-Automata Urban Sprawl Simulation System with Suitability Evaluation in Guangzhou (2013)

AWARD (other than maps)

- Scholarship for CaGIS & UCGIS Symposium, International Cartographic Association (2024)
- Trewartha-Odebolt Conference Travel Award, UW-Madison Geography Department (2024, 2022, 2021, 2019)
- NACIS 2023 Conference Travel Grant (2023, 2021)
- 1st Place of 2022 Most Downloaded Paper Award, Annals of GIS (3rd author) (2022)
- 3rd Place of 2022 Best Paper Award, Annals of GIS (3rd author) (2022)
- AAG Spatial Analysis and Modeling (SAM) Specialty Group Student Travel Awards (2021)
- Holtz Center for STS, Grant for Virtual Conference, UW-Madison (2020, 2020)
- Student Research Conference Travel Award, UW-Madison (2019)
- Editors' Pick, 2016 Southeastern Geographer Photo Contest (2017)
- Excellent Graduate Award, SYSU (2015); Excellent Student Scholarship, SYSU (2014, 2013, 2012)
- Logo Bid Winner, Center of Integrated Geographic Information Analysis (CIGNA), SYSU (2013)
- 3rd Prize in the 6th Geographical Cultural Presentation Preliminary Contest in Southern China (2012)
- 3rd Place of Hard Brush Chinese Calligraphy, "Yixian Cup" Lingnan Painting & Calligraphy Competition (2012)

PUBLICATION (*in progress)

- C. Guo. (2024). Zibo Map of Culture and Tourism. [Atlas of Design, Volume VII](#). NACIS.
- C. Guo. (2024). Revealing Hurricane Harvey: Through the Lens of Twitter-Based Trajectories. [ESRI Map Book, Volume 39](#). Esri Press.
- *C. Guo, Q. Huang. Multimodal Social Media Data Learning and Visualization for Hurricanes, International Journal of Disaster Risk Reduction.
- *C. Guo, Q. Huang. Flight or Driving? Mining and Exploring Evacuation Behaviors During 2017 Hurricane Harvey. Cartography and Geographic Information Science.
- X. Li, H. Xu, X. Huang, C. Guo, Y. Kang, X. Ye. (2021). Emerging Geo-Data Sources to Reveal Human Mobility Dynamics During COVID-19 Pandemic: Opportunities and Challenges, Computational Urban Science, 1(1), 1-9. <https://link.springer.com/article/10.1007/s43762-021-00022-x>
- C. Guo, Q. Huang. (2021). Examining Spatiotemporal and Sentiment Patterns of Evacuation Behavior During 2017 Hurricane Harvey. In Empowering Human Dynamics Research with Social Media and Geospatial Data Analytics (pp. 139-165). Springer, Cham. https://link.springer.com/chapter/10.1007/978-3-030-83010-6_8
- R. Liu, X. Yao, C. Guo, X. Wei. (2020). Can We Forecast Presidential Election Using Twitter Data? An Integrative Modelling Approach. Annals of GIS, 1-14. <https://www.tandfonline.com/doi/full/10.1080/19475683.2020.1829704>
- R. Roth, et al. (2020). Madison and Vicinity: A Tangible Map Quilt. Cartographic Perspectives. <http://doi.org/10.14714/CP95.1615>
- Q. Huang, C. Guo. (2017). Public Sentiment and Movement Patterns during Natural Hazards. AGU Fall Meeting. <https://ui.adsabs.harvard.edu/abs/2017AGUFMIN31F..05H/abstract>
- C. Guo. (2017). Associating Socioeconomic Characteristics with Sentiments: A Case Study of 2016 U.S Presidential Election. University of Georgia Theses and Dissertations. <https://esploro.libs.uga.edu/esploro/outputs/9949334586002959>
- C. Guo. (2015). Exploring Emotional Space in Guangzhou Based on Microblog Check-in Data. Sun Yat-Sen University Theses.
- C. Guo. (2014). Illustrated Article "Become A GISer with Good Mapping Skills". How to Be a GISer (E-Book, 1st edition).
- H. Cui, G. Chen, L. Yuan, C. Guo. (2013). Urban Cellular Automata Model and Suitability Evaluation: A Case of Guangzhou. Collection of SYSU Excellent Undergraduate Paper.

ASSOCIATION


- [NACIS](#): North American Cartographic Information Society (2020, 2021, 2022, 2023, 2024)
- [CaGIS](#): Cartography and Geographic Information Society (2020, 2022, 2023, 2024)
- [IEEE GRSS](#): Geoscience and Remote Sensing Society (Reviewer) (2020, 2021, 2023, 2024)
- [WLIA](#): Wisconsin Land Information Association (2024)
- [WMS](#): Washington Map Society (2024); [CMS](#): Chicago Map Society (2024)
- [Earth Sciences](#), Science Publishing Group (Reviewer) (2020, 2021)
- [AAG](#): American Association of Geographers (2017, 2019, 2020, 2021, 2022, 2023)
- [SEDAAG](#): Southeast Division of American Association of Geographers (2016)

CONFERENCE

- CaGIS + UCGIS Symposium 2024, [Poster Presentation](#) (Columbus, OH, Jun 2024)
- WLIA 2024 Annual Conference, [Map Gallery](#) (Green Bay, WI, Feb 2024)
- Big Ten Academic Alliance (BTAA) GIS Conference, [Map Gallery](#) (Virtual, Nov 2023)
- NACIS 2023 Annual Meeting, [Map Gallery](#) (Pittsburgh, PA, Oct 2023)
- ICC 2023, [International Cartographic Exhibition](#) (Cape Town, South Africa, Aug 2023)
- 2023 Esri User Conference, [Map Gallery](#) (San Diego, CA, July 2023)
- AAG 2023 Annual Meeting, [Paper Presentation](#) (Denver, CO, Apr 2023)
- UW-Madison Annual Research Bazaar, [Panel Presentation](#) (Madison, WI, Feb 2023)
- NACIS 2022 Annual Meeting, [Map Gallery](#) (Minneapolis, MN, Oct 2022)
- NACIS 2021 Annual Meeting, [Map Gallery](#) (Oklahoma City, OK, Oct 2021)
- AAG 2021 Annual Meeting, [Paper Presentation](#) (Virtual, Apr 2021)
- 23rd International Research Symposium on Cartography and GIScience (AutoCarto 2020), [Paper Presentation](#) (Virtual, Nov 2020)
- IEEE VIS 2020 Workshop on Information Visualization of Geospatial Networks, Flows and Movement (MoVIS), [Paper Presentation](#) (Virtual, Oct 2020)
- NACIS 2020 Annual Meeting, [Paper Presentation](#) and [Map Gallery](#) (Virtual, Oct 2020)
- 2020 Esri User Conference, [Map Gallery](#) (Virtual, July 2020)
- UCGIS Symposium 2020, [Poster Gallery](#) (Virtual, Jun 2020)
- AAG 2020 Annual Meeting, (Virtual, Apr 2020)
- AAG 2019 Annual Meeting, [Paper Presentation](#) (Washington, DC, Apr 2019)
- AAG 2017 Annual Meeting, [Paper Presentation](#) (Boston, MA, Apr 2017)
- Southeast Division of AAG (SEDAAG) 2016 Annual Meeting (Columbia, SC, Nov 2016)
- Georgia Informatics Symposium (Athens, GA, Oct 2016)
- Georgia Geospatial Conference (Athens, GA, Oct 2016)
- 2014 Annual Academic Meeting of the Geographical Society of China (GSC) (Chengdu, China, Oct 2014)
- International Conference on Geo-simulation and Crime Geography (Guangzhou, China, Jul 2014)

EXTRACURRICULAR

- Volunteer in Dataset Cleaning, [Natural Earth](#) (Nov 2023 – Present)
- News Cartographer, Covid Pandemic Cartographer (Jun 2020 – Present), MADNEWS, the largest Chinese media platform in Madison, WI (WeChat: Madison_news, [Facebook Page](#))
- GIS Development Intern at [United Nations Development Programme](#), [Global Centre for Technology, Innovation and Sustainable Development](#) (Sep 2021 – Dec 2021)
- GIS & Data Visualization Intern at [Community Broadband Networks Initiative](#), [Institute for Local Self-Reliance](#) (Feb 2021 – May 2021)
- Logo Designer of UW-Madison [Spatial Computing and Data Mining Lab](#) (Mar 2020)
- Tin/Low Whistle Player, local Irish music sessions in Athens, GA and Madison, WI (2019, 2023 – Present)
- Guqin and Tin/Low Whistle Player, [Ensemble of Asian Musical Instrument Community \(AMIC\)](#), participating in 7 public performances in Madison and Milwaukee, WI (Sep 2017 – Apr 2019)
- Volunteer Editor, Facebook Group ["Human & Physical Geography"](#) (Feb 2016 – Aug 2017)
- Chair of Logistic Committee, first campus-wide UGA GIS Day ([Facebook Page](#)) (Jul 2016 – Nov 2016)
- Logo Designer of Center of Integrated Geographic Information Analysis (CIGNA), SYSU (2015)

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- Assistant in Advertising / Academics / Mental Health, SYSU Class of 2015 (GIS Major) (Sep 2012 – Jun 2015)
 - Student Librarian, Library of Geography and Planning School, SYSU (Oct 2013 – May 2015)
 - Communicating Volunteer and Assistant, “Blue Letter Project” Left-Behind Childcare Organization ([Website](#)) (Oct 2012 – May 2015)
 - Deputy Director (Sep 2012 – Jun 2013), Assistant (Sep 2011 – Sep 2012) in Advertising, Student Union of Geography and Planning School, SYSU
 - Assistant in Advertising, Lingnan Association of Calligraphy and Painting, SYSU (Oct 2011 – Sep 2012)
 - Invention Patent: Bottle Cap for Water Bottle ([Google Patent](#)) (2011)
 - Utility Model Patent: Water Bottle Cap ([Google Patent](#)) (2011)
 - Utility Model Patent: Elastic Pen-Cap Clip ([Google Patent](#)) (2010)
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