# Chenxiao. Atlas. Guo

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# **EDUCATION**

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

(Madison, WI, USA; 2022 Expected)

- Ph.D. in Geography (Cartography/GIS); Minor in Computer Science; Current GPA: 3.7/4.0
- Graduate Student Member in UW Spatial Computing and Data Mining Lab, UW Cartography Lab
- Teaching Courses: Cartography (including lectureship), GIS, GIS Applications, Geocomputing, Digital Globe
- Project Assistant in UW-Madison GIS Professional Programs (revision of curriculum in cartography)

#### University of Georgia (UGA)

(Athens, GA, USA; 2017)

- M.S. in Geography (GIS); Graduate Student Member in UGA Community Mapping Lab; GPA: 3.7/4.0
- Research Assistant in App Dev Group, IT Division, UGA Carl Vinson Institute of Government
- Teaching Course: Transportation Modeling and GIS

#### Sun Yat-Sen University (SYSU)

(Guangzhou, China; 2015)

(2020)

(2018)

- B.S. in Geographic Information Systems; GPA: 3.8/4.0 (Excellent Graduate; Excellent Scholarship 2012 2014)
- Undergraduate Research Assistant in Center for Historical Geography, Big Data Communication Lab, Center of Integrated Geographic Information Analysis (CIGNA)

# SKILLS

- Cartography: ArcGIS (Pro, Online, Dashboards, StoryMaps) | Mapbox | Leaflet | D3 | Blender | Kepler.gl
- Design: Illustrator | Photoshop | Flash | CorelDraw | Inkscape | AutoCAD | After Effect | Dreamweaver
- Geospatial: ArcGIS (Desktop, Pro, Server, Engine) | QGIS | TransCAD | GeoDa | Envi | Erdas | GE Engine
- Development: JavaScript | HTML | CSS | ASP.NET MVC | Android | Postgres | SQL Server | MongoDB | AWS
- Analysis: Python | Java | C# | SQL | R | MATLAB | SPSS | Gephi | Visual Basic | C++ | Pascal

# **RECENT RESEARCH**

- Investigating Human Mobility During Pandemic: An Integrated Social Media Approach (AAG 2021) (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)
- Can We Forecast Presidential Election Using Twitter? An Integrative Model Approach (Annuals 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)
- Examining Spatiotemporal Pattern in Evacuation Behavior during 2017 Hurricane Season (AAG 2019) (2018)
- Associating Socioeconomics with Sentiments on 2016 U.S. Presidential Election in Georgia (AAG 2017) (2017)

# **GIS DEVELOPMENT**

- [Web/Mobile GIS] Madison Area and Wisconsin COVID-19 Pandemic Dashboard (~500 daily views) (2020) Included by UW Data Science, WLIA, Esri Covid-19 Map Gallery; Reported by local media platform for 3 times
- [Web GIS] U.S. Historical Hurricanes Geovisualization (2019)
- Built the query-able interactive map and charts (Leaflet framework and jQuery, D3, jQueryUI, turf libraries)

   [Web GIS] GNAHRGIS-Ecology Project (Georgia Department of Natural Resources) (2016 2017)
- Achieved advanced spatial query function (ArcGIS Server API) in ASP.NET MVC, with SQL Server, jQuery, Dojo
- [Mobile GIS] SYSU Campus Navigation (Android App using ArcGIS SDK; in Wandoujia App Store)

  1st Prize in Web/Mobile Group, Esri Chinese College GIS Software Development Contest (News)

# **SEXTRA-CURRICULAR**

- GIS and Data Visualization Intern, Institute for Local Self-Reliance, Community Network Initiatives (2021)
- Honorable Mention of David Woodward Digital Map Award in 48th CaGIS Map Design Competition (2021)
- Best Student Map, Wisconsin Land Information Association (WLIA) Map Contest
- AAG Spatial Analysis and Modeling (SAM) Specialty Group Student Travel Award

  (2021)
- Cartographer, MADNEWS (largest Chinese media platform in Madison, WI) (2020 2021)
- "Home Metro Map" Ranked Top 2% in 650+ submissions, Esri UC 2020 Map Gallery, Digital Salon (2020)
- Tin Whistle Player, Ensemble of Asian Musical Instrument Community (AMIC) (YouTube) (2017 2019)
- Editor, Facebook Group "Human & Physical Geography" (Facebook) (2016 2017)
- Co-organizer (chair of logistic committee), First UGA Campus-wide GIS Day (Facebook) (2016)
- Volunteer and Assistant, "Blue Letter Project" Left-Behind Childcare Organization (Website) (2012 2015)