CHENXIAO.ATLAS.GUO

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💡 SUMMARY

Open-To-Work: (Internship / Part-Time) Cartographer / GIS Engineer / Geospatial Analyst
Research Area: Cartographic Visualization, Spatiotemporal Analytics, Social Media Data Mining,
　　　　　　 Natural Disaster Management (bridging geospatial data science, cartography, and social good)

🎓 EDUCATION

University of Wisconsin-Madison (UW-Madison)　　　　　　　　　(Madison, WI, USA; 2021 Expected)
 • Ph.D. in Geography (Sub-area of Cartography/GIS); Minor in Computer Science;　　GPA: 3.7/4.0
University of Georgia (UGA)　　　　　　　　　　　　　　　　(Athens, GA, USA; 2017)
 • M.S. in Geography (Sub-area of GIS);　　　　　　　　　　　　　　　GPA: 3.7/4.0
Sun Yat-Sen University (SYSU)　　　　　　　　　　　　　　　(Guangzhou, China; 2015)
 • B.S. in Geographic Information Systems;　　　　　　　　　　　　　　GPA: 3.8/4.0

📈 EXPERIENCE

Teaching Assistant
 • UW-Madison Geog 370 Cartography, 377 GIS, 378 Geocomputing, 578 GIS Applications (Fall 2017 – Present)
 • UGA Geog 6/4380 Transportation Modeling and GIS (Fall 2015)
Project Assistant
 • UW-Madison GIS Professional Program Geog 572 Graphic Design in Cartography
   (Upgrade course materials to ArcGIS Pro) (Summer 2020)
Research Assistant
 • App Dev Group, IT Division, UGA Carl Vinson Institute of Government (Spring 2016 – Summer 2017)
Graduate Student Member
 • UW Spatial Computing and Data Mining Lab; UW Cartography Lab; UGA Community Mapping Lab
Undergrad Research Assistant
 • Center of Integrated Geographic Information Analysis, SYSU (Fall 2014 – Spring 2015);
   Center for Historical Geography, SYSU (Spring 2015); Big Data Communication Lab, SYSU (Spring 2015)

⚙ SKILLS

Geospatial: ArcGIS (Desktop, Pro, Server, Engine, Online) | QGIS | TransCAD | GeoDa | Envi | ERDAS | PCI
Design: Illustrator | Photoshop | CorelDraw | Inkscape | AutoCAD | Flash | After Effect | Dreamweaver
Development: JavaScript | HTML | CSS | ASP.NET MVC | Android | PostgreSQL | SQL Server | MongoDB | AWS
Analysis: Python | Java | C# | R | MATLAB | SPSS | Gephi | Visual Basic | C++ | Pascal

▶ GIS DEVELOPMENT

[Web/Mobile] Madison Area COVID-19 Dashboard (Link) (May 2020 – Present)
　　Built Esri Dashboard with ArcGIS Online pandemic maps in web/mobile interfaces with bilingual versions.
　　50,000 total views; 500 daily views; Included by UW Data Science, WLIA, Esri Covid-19 Map Gallery;
　　Oct 10, 2020: News Reported by Channel3000 (Article, YouTube), reprint by News Break, Ground News;
　　Oct 27, 2020: News Reported by Channel3000 (Article, YouTube), reprint by FOX47, Badger Herald;
　　Nov 9, 2020: News Reported by Badger Herald (Article), reprint by News Break
[Web] U.S. Historical Hurricanes Geovisualization (Link) (Mar 2019 – May 2019)
　　Built the query-able interactive map and charts (Leaflet framework and jQuery, D3, jQueryUI, turf libraries)
[Web] Georgia Governmental Project: GNAHRGIS-Ecology Website (Link) (Jan 2016 – Jul 2017)
　　Achieved advanced spatial queries and UI interactions (ArcGIS Server API and jQuery) in ASP.NET MVC;
　　Improved database structure (10+ tables) in SQL Server and implemented frontend query with Ajax and Dojo
[Web] 24-hr Hackathon Project: Smart Traveling (Economic Fueling Solution for Long-Trip Drive) (Oct 2016)
　　Conducted GIS analysis and visualization using ArcGIS JavaScript API and built webpage UI using jQuery
[Desktop] Automatic Typhoon Recognition and Integrated 2D/3D Visualization System (Mar 2015 – Jun 2015)
　　Visualized typhoon speed, direction and centers in 2D/3D synchronously using ArcGIS Engine in C# .NET
[Mobile] Sun Yat-Sen University Campus Navigation (Wandoujia App Store) (May 2014 – Sep 2014)
　　Built user-friendly Android app with GIS modules (map, positioning, navigation) using ArcGIS Android SDKs

PUBLICATION

- (In-Process) C. Guo, Q. Huang. (2020). Flight or Driving? Mining and Exploring Evacuation Behaviors During 2017 Hurricane Harvey. Cartography and Geographic Information Science.
- (In-Process) C. Guo, Q. Huang. (2020). Examining Spatiotemporal and Sentiment Patterns of Evacuation Behavior During 2017 Hurricane Harvey. Empowering Human Dynamics Research with Social Media and Geospatial Data Analytics.
- R. Liu, X. Yao, C. Guo, X. Wei. (2020). Can We Forecast Presidential Election Using Twitter Data? An Integrative Modelling Approach. Annals of GIS.
- R. Roth, et al. (2020). Madison and Vicinity: A Tangible Map Quilt. Cartographic Perspectives.
- Q. Huang, C. Guo. (2017). Public Sentiment and Movement Patterns during Natural Hazards. AGUFM.
- C. Guo. (2017). Associating Socioeconomic Characteristics with Sentiments: A Case Study of 2016 U.S Presidential Election. University of Georgia Theses and Dissertations.
- 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.

CONFERENCE

- (Scheduled) CaGIS 23rd Intl Research Symposium (AutoCarto 2020), Paper Presentation (Virtual, Nov 2020)
- IEEE VIS 2020 "MoVIS" Workshop, Work-In-Progress Presentation (Virtual, Oct 2020)
- NACIS 2020 Annual Meeting, Paper Presentation, Member Map Gallery (Virtual, Oct 2020)
- IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Reviewer (Virtual, Sep 2020)
- 2020 Esri User Conference, Map Gallery (Virtual, July 2020)
- UCGIS Symposium 2020, Poster Gallery (Virtual, Jun 2020)
- AAG Annual Meeting 2020 (Virtual, Apr 2020)
- AAG Annual Meeting 2019, Paper Presentation (Washington, D.C., USA, Apr 2019)
- AAG Annual Meeting 2017, Paper Presentation (Boston, MA, USA, Apr 2017)
- Southeast Division of AAG Annual Meeting (Columbia, SC, USA, Nov 2016)
- Georgia Geospatial Conference (Athens, GA, USA, Oct 2016)
- 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)

AWARDS

- Holtz Center for STS, Grants for Virtual Conference (NACIS 2020, AutoCarto 2020), UW-Madison (2020)
- "Home Metro Map" Ranked Top 2% in 650+ submissions, Esri User Conference 2020 Map Gallery (2020)
- Student Research Conference Travel Award, UW-Madison (2019)
- Trewartha/Odebolt Conference Travel Award, Department of Geography, UW-Madison (2019)
- Editors' Pick, 2016 Southeastern Geographer Photo Contest (2017)
- Excellent Graduate Award, SYSU (2015)
- Excellent Student Scholarship and Excellent League Student, SYSU (2012, 2013, 2014)
- 1st Prize in Web/Mobile Group, Esri Chinese College GIS Software Development Contest (News) (2014)
- Logo Bid Winner, Center of Integrated Geographic Info Analysis, SYSU (2013)
- 3rd Prize in the 6th Geographical Cultural Presentation Preliminary Contest in Southern China (2012)
- 3rd One of Hard Brush Chinese Calligraphy, "Yixian Cup" Lingnan Painting and Calligraphy Association (2012)

EXTRA-CURRICULAR

- Director of Technology (Sep 2020 – Present), COVID-19 Pandemic Cartographer (Jun 2020 – Present), MADNEWS, the largest Chinese media platform in Madison, WI (WeChat: Madison_news, Facebook Page)
- Tin Whistle Player, Ensemble of Asian Musical Instrument Community (AMIC) (YouTube) (Sep 2017 – Apr 2019)
- Editor, Facebook Group "Human & Physical Geography" (Facebook Page) (Feb 2016 – Aug 2017)
- Co-founder, UGA Traditional Chinese Clothing Club (Aug 2016 – Aug 2017)
- Chair of Logistic Committee, First UGA GIS Day (Facebook Page) (Jul 2016 – Nov 2016)
- Student Librarian, Library of Geography and Planning School, SYSU (Oct 2013 – May 2015)
- Volunteer and Assistant, "Blue Letter Project" Left-Behind Childcare Org (Website) (Oct 2012 – May 2015)
- Deputy Director of Advertising, Geography School Student Union, SYSU (Sep 2012 – Jun 2013)
- Utility Model Patent: Water Bottle Cap (Google Patent) (2011), Elastic Pen-Cap Clip (Google Patent) (2010)