ZHAOXU SUI

https://zhaoxuSui.github.io   -   zsui@uoregon.edu

EDUCATION

University of Oregon   *Eugene Campus*, *Eugene, OR*

M.S., Geography   September 2022 – June 2024

- Advisor: Dr. Carolyn Fish
- Research Interest: Territorial Representations on Maps, Cartography Design in Cross-cultural Contexts, Toponymy and Cartography
- Lab Affiliations: The Cartofish Lab, S3C Lab, Infographics Lab

University of Minnesota   *Twin-Cities Campus, Minneapolis, MN*

B.S., Geography   September 2019 - December 2021

- *Minors: GIS, Population Studies, Interdisciplinary Design*
- Cumulative GPA: 3.99/4.0, Dean's List from 2019 to 2021
- Senior Project: Flooding Risk Assessment in Jinan, China, in ArcGIS Story Map

RESEARCHING EXPERIENCES

Student Mapping Assistant   April 2024 – June 2024

with Dr. Lynn Stephen (stephenl@uoregon.edu)   *Eugene, OR*

Department of Anthropology, University of Oregon

- Refined and geolocated survey responses to generate cartographic visualizations of Mesoamerican minority languages that have been spoken by invisible communities in Oregon.
- Designed interactive Esri web app with geolocated data.

Student Research Assistant   April 2023 – June 2023

with Dr. Carolyn Fish (cfish11@uoregon.edu)   *Eugene, OR*

Department of Geography, University of Oregon

- Collected and gathered metadata, including authors, affiliations, keywords, and years of peer-reviewed articles in four cartographic journals: Cartographica, International Journal of Cartography, The Cartographic Journal, and CaGIS journal from 2000.
- Visualized authors' affiliations on maps summarized by countries.

Student Academic Support   July 2021 - December 2021

with Jeff Matson (jmatson@umn.edu)   *Minneapolis, MN*

Center for Urban and Regional Affairs (CURA), University of Minnesota

- Collected and updated the geodatabase of Minneapolis creative enterprises, including designers, architects, etc.
- Assisted in the creation of ArcGIS Online web map based on the geodatabase.

Undergraduate Researcher   October 2020 – June 2021

Institute on the Environment, University of Minnesota   *Minneapolis, MN*

- Researched the food scarcity issue and the possibilities of urban gardening in the Northside community, Minneapolis
- Involved and helped to visualize data and making ArcGIS Online web map on the research to better enhance the readability of the web page of Northside community Sweetie Pie Project.

PUBLICATION

Peer Reviewed Abstract

Sui, Z., & Fish, C. S. (2023). Endonyms or Exonyms: How map purpose, data source, and map language impact place naming on maps. Abstracts of the ICA, 6, 1–2. https://doi.org/10.5194/ica-abs-6-249-2023

WORK & TEACHING EXPERIENCE

Graduate Teaching – "GIS I Spring 2024"   April 2024 - Present
Graduate Teaching – "GIS I Winter 2024"   January 2024 – March 2024
Department of Geography, University of Oregon   *Eugene, OR*

- Gave guest lecture on *surface analysis / model builder*
- Teaching and grading in the lab and discussion session of intro-level GIS class.
- Instructing and explaining the basic operations in ArcGIS Pro, including map operations, scene, interface, symbology, layout, geoprocessing tools (vector and raster), data structures, edit tools, raster functions, and model builder.

Graduate Teaching – "Data Driven Cartography Fall 2023"   September 2023 – December 2023
Graduate Teaching – "Data Driven Cartography Winter 2023"   January 2023 – March 2023
Department of Geography, University of Oregon   *Eugene, OR*

- Gave guest lecture on *toponymy*
- Prepared, taught, and graded on the lab session of data-driven cartography class.
- Instructed and explained the data-processing tools and raster functions in ArcGIS Pro.
- Supported students to make their own map portfolios.
- Summarized and improved lab session structures for the class.

Graduate Employee – Student Cartographer   September 2022 – March 2024
Infographics Lab, University of Oregon   *Eugene, OR*

- Made an illustration: *Elements of Cartography*
- Hosted a workshop to demonstrate Mapbox Studio and Map Style Designs
- Contributed three writing pieces to the first lab-wide annual research anthology
- Designed and assisted posters and materials for GIS Day and Student Data Challenge.
- Created a Mapbox Basemap for Global Initiative of Ungulate Migrations (GIUM) project on a tentative interactive web dashboard.
- Created animations on Elk migrating routes in Wyoming using Mapbox GL JS to explore the auto-generation of similar ones for GIUM Project.
- Assisted in the layer reorganizations and labeling of USGS Migration Annual Report Maps using Adobe Illustrator.

Student Mapping Assistant   March 2021 – May 2021
Regional Sustainable Development Partnerships, University of Minnesota   *Minneapolis, MN*

- Remade and updated the map of Lost Creek Hiking Trail for the Bluff Country Hiking Club located in Chatfield, MN.
- Re-designed the graphic style of the map of Lost Creek Hiking Trail, using Esri products.

GRANTS

University Graduate Fellowship, The Pennsylvania State University   January 2024
North American Cartographic Information Society (NACIS) Student Travel Grant   October 2023
Mather Fellowship, Department of Geography, University of Oregon   August 2023

| U.S. National Committee (USNC) to the Int'l Cartographic Conference Travel Funding | April 2023 |
| North American Cartographic Information Society (NACIS) Student Travel Grant | October 2021 |

SCHOLARSHIPS

University of Oregon Rippey Grant Research Awards	August 2023
International Cartographic Association (ICA) Scholarship for ICC 2023	April 2023
University of Minnesota Ecolab Sustainability Scholarship	October 2020
University of Minnesota Global Excellence Scholarship	September 2019

HONORS AND AWARDS

Arthur Robinson Print Map Award

Cartographic and Geographic Information Society (CaGIS)

Copies are preserved at the Library of Congress, Washington D.C.

- Earth Transit: Honorable Mention	February 2024
- Travel Map of the World: Honorable Mention	March 2023
- Comprehensive Map of the World and Beyond: Honorable Mention	April 2021

Bill Loy Award for Excellence in Cartography

Infographics Lab, Department of Geography, University of Oregon

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| - Reference Atlas of the World: Honorable Mention | May 2023 |

U-Spatial Mapping Prize

Department of Geography, University of Minnesota

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| - Reference Atlas of the World: Most Ambitious Award | June 2021 |

| **15th International Geography Olympiad** | August 2018 |

- Global 10th Place Gold Medal Recipient (3rd Place on the Field Work Test Gloablly)

AFFILIATIONS AND SERVICES

American Association of Geographers (AAG)

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| - Student Chair, Cartography Specialty Group | May 2023 – May 2024 |

Cartographic and Geographic Information Society (CaGIS)

North American Cartographic Information Society (NACIS)

Associated Graduate Students in Geography (AGSG), University of Oregon

- Colloquium Chair, Representative at Large	May 2023 – May 2024
- Social Chair, Treasurer	November 2022 – May 2023

Graduate Teaching Fellows Federation, University of Oregon

Phi Beta Kappa

VOLUNTEERING

| **Student Cartographer** | March 2024 |
| *Department of Anthropology, University of Oregon* | *Eugene, OR* |

- Made reference maps of Huehuetenango and Quetzaltenango departments in Guatemala for Dr. Lynn Stephen's book.

| **Student Organizer – "Graduate Workshop Fall 2023"** | September 2023 – December 2023 |
| *Department of Geography, University of Oregon* | *Eugene, OR* |

- Prepared and organized topics for the workshop every week.
- Invited Infographics Lab directors to introduce the lab to graduate students.

- Recorded and took notes for the discussion contents.

Graphic Designer   October 2023 - Present

GISphere   *Remote*

- Designed covers for GISphere annual report.
- Designed posters for the GIS Salon webinar events (2023 and for AAG in 2024).
- Designing cover page for the newsletter articles from GISphere WeChat official account.

Student Participant   October 2023

North American Cartography Information Society Annual Conference   *Pittsburgh, PA*

- Participating and helping with DEI Committee's yearly objectives of locating potential conference venue sites
- Located, moved, and packaged projectors for the conference sessions.
- Donated four panorama maps for practical cartography day (PAD) raffle prizes.

Data Contributor   December 2022 – Present

Natural Earth Dataset   *Remote*

- Updating the transportation dataset, including airports, roads, and railways around the world. Over thousands of roads are added into the new dataset.
- Updating the populated places dataset, with hundreds of cities added in the East Asia, South Asia, and Oceania
- Translated Tom Patterson's Equal Earth World Physical Map to Simplified Chinese version

Graphic Designer   October 2022 – June 2024

Huafeng Magazine Club, University of Oregon   *Eugene, OR*

- Designing posters and flyers for Lunar New Year Celebration Events using Adobe InDesign
- Designing Chinese and English articles using Adobe InDesign

International Student Ambassador / Outreach Peer Mentor   October 2020 – September 2021

International Student and Scholar Services, University of Minnesota   *Minneapolis, MN*

- Connected virtually with newly admitted students to the university and answered the questions from these students to help them better understand the University of Minnesota for making their own decisions.

CONFERENCE PARTICIPATIONS

Conference Presentations

Sui, Z. (2024). Deconstructing borders, fill-colors, and toponyms: cartography designs in the political disputed territory of Sakhalin. *American Association of Geographers 2024 Annual Meeting, Honolulu, HI*, April 18, 2024.

Sui, Z. (2023). Secure Political Claim: How Japanese Regulate Map Labeling on Southern Sakhalin Island (Karafuto). *North American Cartography Information Society Annual Conference, Pittsburgh, PA*, October 11-14, 2023.

Sui, Z. (2023). Endonyms or Exonyms: How map purpose, data source, and map language impact place naming on maps. *International Cartographic Conference, Cape Town, Western Cape, South Africa*, August 14, 2023.

Sui, Z. (2023) AI use in atlas projects. *Map AI Workshop, International Cartographic Conference, Stellenbosch, Western Cape, South Africa*, August 12, 2023.

Sui, Z. (2023). Endonyms or Exonyms: How map purpose, data source, and map language impact place naming on maps. *American Association of Geographers 2023 Annual Meeting, Denver, CO*, March 27, 2023.

Conference Session Organization / Chair

Houtman, L. and **Sui, Z.** (2024). Putting the Human back in Cartography: Designs and Practices. *American Association of Geographers 2024 Annual Meeting, Honolulu, HI*, April 18, 2024.

EXHIBITIONS

Sui, Z. (22024). Earth Transit. German Newsmedia *ZeitMagazin*, February 2024.

Sui, Z. (2023). World Physical and World Countries. *North American Cartography Information Society Annual Conference, Pittsburgh, PA*, October 11-14, 2023.

Sui, Z. (2023). Map of Jinan Urban Area. *North American Cartography Information Society Annual Conference, Pittsburgh, PA*, October 11-14, 2023.

Sui, Z. (2023). Travel Map of the World. *Online Map Gallery of International Cartographic Conference, Cape Town, Western Cape, South Africa, August 14, 2023.*

Sui, Z. (2022). The Sahara. *North American Cartography Information Society Annual Conference, Minneapolis, MN*, October 19-22, 2022.

Sui, Z. (2022). Travel Map of the World. *North American Cartography Information Society Annual Conference*, *Oklahoma City, OK*, October 13-16, 2021.

Sui, Z. (2021). Comprehensive Map of the World and Beyond. *North American Cartography Information Society Annual Conference, Oklahoma City, OK*, October 13-16, 2021.

SKILLS

GIS	ArcGIS Pro, ArcGIS Online, ArcGIS Desktop, Mapbox, QGIS
PROGRAMMING	Python(Numpy, Pandas, Geopandas, ArcPy), Javascript
GRAPHIC DESIGN	Blender, Adobe Illustrator, InDesign, Photoshop, After Effects
WEB DESIGN	HTML, CSS, Wix, Wordpress, ArcGIS Web Apps, Esri Storymap
LANGUAGES	**Chinese:** Native, **English:** Proficient, **Japanese:** Elementary

RELEVANT COURSEWORKS

Graduate Level

- Political Geography
- Seminar on Nature, Power, and Marx
- Seminar on Arts and Geography
- Qualitative Methods in Geography
- Web Mapping (html, Javascript, Mapbox)
- Research Design
- Theory and Practices in Geography
- Seminar on Critical Remote Sensing
- ArcGIS I (ArcPro & ArcPy)

Undergraduate Level

- Geographic Inquiry
- Natural Hazards (Capstone Project)
- Spatial Numerical Analysis (ArcPy)
- Travels in Typography
- Disease, Disaster, and Other Killers
- Epidemiology: People, Places, Disease
- Principles of Geocomputing (Python)
- Web Design (html)
- Intro. to Computing Systems (C++)
- Storytelling and Design
- Introduction to Design Thinking
- Principles of GIScience (ArcPro)
- Principles of Cartography (ArcPro)
- Environ. Systems and Global Change
- World Population
- Design and Visual Presentation (Adobe)
- Global Stories of Education
- Geographies of Travel / Tourism
- Cities, Citizens, and Communities
- Biogeography
- Globalization Geography
- Drawing, Japanese, Piano, Self-defense