

YANBING CHEN

(608) 690-1776 | yanbing.chen@wisc.edu | LinkedIn | Google Scholar

SKILLS

GIS and Remote Sensing: ArcGIS Pro, ArcMap, Google Earth, ENVI, Mapbox, QGIS, Post SQL

Programming: Python, JavaScript, HTML & CSS, XML, R, SQL, Net logo

Graphic Design: Adobe Illustrator, Photoshop, Figma

Spatial Analysis: NumPy, Pandas, GeoPandas, ArcPy

Platforms & Frameworks: Gephi, WordPress, GitHub, Google Colab, Jira

Language: Chinese (Native), English (Proficient), French (Basic)

EDUCATION

University of Wisconsin – Madison, Wisconsin, United States

Sep 2023 - Exp. May 2028

M.S. and Ph.D. in Cartography and Geographic Information Systems

- Relevant Coursework: Cartography, Interactive Cartography & Visualization, Spatial Analysis

McGill University, Quebec, Canada

Sep 2019 - May 2023

B.A. in Geography and Economics (3.81/4.0)

- Relevant Coursework: Advanced GIS, Geospatial Web, Geocomputing, Remote Sensing

RESEARCH & PROJECT EXPERIENCE

Project Leader, Inter-lab Collaboration Project

Aug 2022 - Present

Investigating Mobility and Research Themes through Faculty Hiring Network in GIScience

- Leading a team to collect comprehensive data on 731 tenure-track GIScience faculty from various institutions worldwide
- Utilizing Gephi to conduct GIScience research themes and mapped the landscape of 551 GIS graduate programs

Undergraduate Researcher, Roger Tomlinson Lab for GIScience at McGill

May 2022 – Aug 2023

Animate and visualize historical data with ArcGIS Pro, Net Logo, and Geovisualization tools

- Leveraged agent-based model and ArcGIS Pro to recreate possible ancient travelling routes
- Used Python to generate dynamic space-time paths, offering a unique perspective on historical agent movements

Project Leader, GEOG384 Principles of Geospatial Web at McGill

Sep 2022 – Dec 2022

A historical storymap for California Gold Rush

- Orchestrated an historical story map focusing on the Chinese immigration narrative during the California Gold Rush
- Employed Mapbox for base map customization and used JavaScript to bring interactivity to the story map presentation

Mobile Tracking Web App

- Designed a user interface and incorporated a tracking function that captures user location at 30-second intervals
- Achieved route visualization in Mapbox and added a space-time cube representation for an enhanced user experience

WORK EXPERIENCE

GISphere Team Leader, GISphere, online

Jun 2022 - Present

- Oversaw the content management for the [GIS-Info Institution Guide](#), a comprehensive resource for GIS professionals and students, encompassing details on 500+ GIScience graduate programs and 1500+ faculty
- Providing insights for database design with IT team and ensuring the platform's content accuracy and relevance

GIS Assistant, Geographic Information Center at McGill

Sep 2022 - May 2023

- Hosted workshops on ArcPy and Mapbox, introduced participants to advanced techniques in spatial analysis.
- Assisted students and researchers in effectively using ESRI products, including ArcGIS Pro, ArcMap, and StoryMap

Study Counsellor, Education International Cooperation Group, China

Jun 2019 – Sep 2021

- Giving free online lectures related to experience of studying abroad on a basic routine
- Publishing WeChat subscription articles to enlarge influence and broaden new markets, followers increased by 1000
- Strengthening the relationship between customers and company by collaborating over 20 online and offline activities

PUBLICATIONS

- **Chen Y.**, Kang Y. (2023). [Investigating Demographics and Mobility through Faculty Hiring Network in GIScience](#). *Spatial Knowledge Conference Proceedings*
- Sengupta, R., Vankeerberghen, G., Wen, R., Rao, J., **Chen, Y.** (2023). [GIS-enabled historiography to determine travel routes during the Western Han period via agent-based models and least-cost path analysis](#). *Transactions in GIS*, 27(4), 1090–1103.

CONFERENCE AND WORKSHOPS

- Investigating Mobility and Research Themes through Faculty Hiring Network in GIScience Jun 2024
CaGIS and UCGIS symposium, Columbus, Ohio
- Integrating Indigenous Perspectives in Web Mapping: Assessing Industry Practices and Cartographic Techniques Apr 2024
American Association of Geographers 2024 Annual Meeting, Honolulu, Hawaii, United States
- Academic Recruiting in GIScience Feb 2023
Spatial Knowledge Conference, Banff, Canada
- Mobile Tracker of VGI, Using Story Map as visual storytelling Nov 2022
McGill GIS Day, Montreal, Canada

MAP GALLERY

- ["To Incarcerate or to Educate?"](#) - A map comparing the cost of inmates in U.S. states with their spending on education.
- ["Behind Bars"](#) - A map showcasing a comparison of incarceration rates across U.S. states.
- ["Vermont Trails"](#) - A Vermont Hiking Guide
- ["Chinese Restaurants in Barbados"](#) - The Map designed for Project: Chinese Immigrants in Barbados

GRANTS & AWARDS

- [CAGIS Rising Award](#), The Cartography and Geographic Information Society 2022
Kang Y., **Chen Y.**, Zhou B., Gu Z. Characterizing and Promoting Cartography and GIS Graduate Programs through Research Theme Discovery and Online Seminars

SCHOLARSHIPS

- University Graduate Fellowship, University of Wisconsin – Madison 2023
- 2022 Dean's Honour List, McGill University 2022
- 2022 Arts Research Internship Awards, McGill University 2022
- 2022 Arts Undergraduate Awards, McGill University 2022