

Hongtao Hao

CONTACT INFORMATION	1210 W. Dayton St., Rm 3239 Madison, WI 53706	hongtaoh@cs.wisc.edu hongtaoh.com
EDUCATION	University of Wisconsin-Madison , Madison, WI Ph.D. in Computer Sciences August 2026 (expected) <ul style="list-style-type: none">Coursework: <i>Introduction to Optimization, Machine Learning, Introduction to Artificial Intelligence, Modeling User Interaction, Data Visualization, Human Computer Interaction, Building User Interfaces</i> Indiana University , Bloomington, IN M.A. in Media Arts and Sciences, GPA: 4.00/4.00 May 2020 <ul style="list-style-type: none">Committee: Nicole Martins, Danielle Kilgo, Bryant PaulCoursework: <i>Introduction to Bayesian Data Analysis I, Data Visualization, Quantitative Methods for Public Health Research, Introduction to Statistics in Media Research, Content Analysis, Media Theories, Children and Media, Applying Social Science Research Methods to Media</i> Renmin University of China , Beijing, China M.A. in Journalism, GPA: 3.92/4.00 June 2018 Hebei Normal University , Shijiazhuang, China B.A. in English (Translation), GPA: 3.92/4.00 June 2016	
PUBLICATIONS	Hatfield, H. R., Hao, H., Klein, M. S., Zhang, J., Fu, Y., Kim, J., Lee, J., Ahn, S. J. (2024). Addressing Whiteness in Communication Scholar Composition and Collaboration across Seven Decades of ICA Journals (1951-2022). <i>Journal of Communication</i> . Guo, J., Mohanty, V., Hao, H., Gou, L., & Ren, L. (2024, March). <i>Can LLMs Infer Domain Knowledge from Code Exemplars? A Preliminary Study</i> . In <i>Companion Proceedings of the 29th International Conference on Intelligent User Interfaces</i> (pp. 95-100). Hao, H. 2023. Selfie-editing among young Chinese women may have little to do with self-objectification. <i>Current Psychology</i> , 1-18. [Link], [Data and Codes], [Pre-registration] Hao, H., Cui, Y., Wang, Z., Kim, Y.S. 2022. Thirty-two Years of IEEE VIS: Authors, Fields of Study and Citations. <i>IEEE Transactions on Visualization and Computer Graphics</i> . [PDF], [Source code], [Demo]	
WORKING EXPERIENCE	Robert Bosch LLC , Sunnyvale, CA, USA <i>Research intern (Prompt engineering & HCI)</i> June 2023 - August 2023 <ul style="list-style-type: none">Developed a front-end interface to allow engineers interact with LLMs for data analysisUtilized Langchain and OpenAI API to generate and rate automatic responses based on input dataLed to the publication of <i>Can LLMs Infer Domain Knowledge from Code Exemplars? A Preliminary Study</i> YY Lab, Indiana University , Bloomington, IN, USA <i>Data visualization research assistant</i> August 2020 - May 2021 Assisted Professor <i>Yong-Yeol ("YY") Ahn</i> with the <i>Covid-19 Trend Visualizations project</i> (Top 10 Liked notebooks on Observable in 2020)	

- Updated the **data workflow**
- Implemented the delay parameter, play speed parameter, go back parameter, and date range slider
- Improved the **website design**

St.Gallen Symposium Magazine, St.Gallen, Switzerland

Student journalist

May 2019

Worked with 13 team members from seven countries and four continents, supervised by **Andrew Curry**, with the group output of a **56-page magazine**. Representative work:

- *"It's not just about spending more money"*, Interviewing Heng Swee Keat, Deputy Prime Minister of Singapore;
- *Freeman Shen's electric dream*, Interviewing Freeman Shen, CEO of WM Motor — a leading Chinese electric car maker;
- *What role should governments play?*, Interviewing young politicians from India, Argentina, and Sri Lanka

TEACHING EXPERIENCE

Department of Computer Sciences, University of Wisconsin-Madison, Madison, WI, USA

Teaching Assistant

August 2021 - Present

CS 571 Building User Interfaces (2024 Spring, 2023 Sprint & Fall), Cole Nelson, around 150 students

CS 540 Introduction to Artificial Intelligence (2024 & 2022 Summer), Young Wu, around 40 students

CS 570 Introduction to Human Computer Interaction (2022 Spring & Fall), Prof. Jacob Thebault-Spieker, 193 students

CS 639 Data Visualization (2021 Fall), Prof. Yea-Seul Kim, 50 students

The Media School, Indiana University, Bloomington, IN, USA

Associate Instructor

January - May 2020

Led group discussions for 40 students enrolled in **MSCH-C101 Introduction to Media**

Graduate Assistant

August 2018 - December 2019

MSCH-C207 Introduction to Media Industry and Management, 125 students

MSCH-C200 Videogame Industry: System and Management, 60 students

New Oriental Education and Technology Inc., Beijing, China

TOEFL Writing Instructor

June - July 2018, June - July 2016

Prepared high school students and college undergrads for the Writing section of TOEFL, with more than 200 hours of practice

SERVICE

- IEEE VIS 2023, reviewer for one paper

HONORS AND AWARDS

Second Top Student Paper Award, International Communication Association 2019

Wings of Excellence Award, 47th St.Gallen Symposium, Switzerland 2017

First Prize Academic Scholarship, Renmin University of China 2017

🏆 National Champion (1st/200,000), First "FLTRP Cup" English Reading Contest, Beijing 2015

National Endeavor Fellowship, Hebei Normal University 2015, 2014

SKILLS

- Programming: **Python, Julia, R, Javascript, HTML/CSS**
- Tools: **L^AT_EX**, Final Cut Pro