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Google Scholar

Haoran Wang

Research Interests

My research focuses on developing trustworthy systems to retrieve, extract, and verify natural language information. I am motivated by detecting misinformation and its associated research goals, including: graph representation learning, knowledge extraction, explainable natural language processing, and learning from weak or distant supervision.

Education

Present PhD, Computer Science, Illinois Institute of Technology, Chicago, Illinois.

Advisor: Kai Shu

2022 **MS, Computer Science**, *University of Oregon*, Eugene, Oregon.

Advisor: Thien Huu Nguyen

2019 **BS, Computer Science**, *Purdue University*, West Lafayette, Indiana.

Advisor: Yung-Hsiang Lu

Publications

Haoran Wang, Yingtong Dou, Canyu Chen, Lichao Sun, Philip S. Yu, Kai Shu. Attacking Fake News Detectors via Manipulating News Social Engagement. ACM Web Conference 2023.

Canyu Chen, Haoran Wang, Matthew Shapiro, Yunyu Xiao, Fei Wang, Kai Shu. Combating Health Misinformation in Social Media: Characterization, Detection, Intervention, and Open Issues. Preprint 2022.

Haoran Wang, Thien Huu Nguyen. Evaluating a Joint Neural Model with Global Features for Document-Level End-to-End Information Extraction. MS Thesis 2021.

Research Experience

Fall 2022 - Graduate Research Assistance, Illinois Institute of Technology, Chicago, IL.

- Present o Advisor: Kai Shu
 - o Project: GUISE, sponsored by Charles River Analytics.
 - o Developed systems to collect Twitter and Weibo related to several geopolitical events such as COVID-19 and South China Sea. Provided data analysis and visualization to model information flow.

Fall 2021 - Graduate Research Assistance, Montana State University, Bozeman, MT.

- Summer 2022 O Advisor: Laura Stanley
 - o Project: iPAL, sponsored by NSF and NIH.
 - o Developed a mobile system for users with opioid use disorder (OUD) to provide cognitive behavioral therapy as an intervention to reduce opioid craving.
 - o Developed immersive biofeedback breathing exercise on Vuzix Blade AR glasses and Microsoft HoloLens 2 MR glasses as an intervention to reduce opioid craving.

Fall 2018 - Undergraduate Research Assistance, Purdue University, West Lafayette, IN.

- Spring 2019 O Advisor: Yung-Hsiang Lu
 - o Project: <u>CAM2</u>, sponsored by *NSF*.
 - o Evaluated different solutions to Big Data storage problem of unstructured data.
 - o Built a distributed database to store images and videos along with their metadata captured by network cameras around the globe.

Fellowships & Awards

- 2022 Provost Doctoral Fellowship, Stevens Institute of Technology
- 2021 Benjamin Fellowship, Montana State University
- 2019 Semester Honor Student, Purdue University

Teaching Assistantship

- 2021 **CS 210: Computer Science I**, *Spring 2020, Winter 2021, Spring 2021*, University of Oregon. Graduate Teaching Assistant
- 2020 **CS 211: Computer Science II**, *Fall 2020*, University of Oregon. Graduate Teaching Assistant

Mentoring

2023 Aman Rangapur, IIT MS student

Technical Skills

Programming languages: Python, Java, C, C++, Javascript, C#, R, Julia

Deep learning frameworks: PyTorch, Hugging Face Transformers, PyTorch Geometric

Software: Linux, Git, Google Cloud Computing, LATEX, CUDA programming