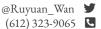
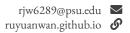
# Ruyuan Wan





## **RESEARCH AREAS**

Ruyuan's research explores Human-Computer Interaction (HCI), Natural Language Processing (NLP), and Social Computing, focusing on communication dynamics in human-human and human-AI interactions, such as annotation disagreement in subjective data, logic fallacy detection in misinformation narratives, and user adaptation behaviors in digital social platforms.

# **EDUCATION**

2024 - 2028 Exp.	<b>Pennsylvania State University</b> , University Park, PA Ph.D. Student in Informatics Advisor: Ting-Hao 'Kenneth' Huang
2022 - 2024	University of Notre Dame, Notre Dame, IN M.S. Computer Science and Engineering
2016 - 2022	University of Minnesota, Minneapolis, MN M.A. in Linguistics & M.S. in Data Science B.A. in Statistics Advisor: Lana Yarosh, Dongyeop Kang

## **AWARDS & HONORS**

2025-2027	NSF Research Traineeship Fellow-Linguistic Diversity Across the Lifespan :
	Transforming Training to Advance Human-Technology Interaction (#2125865)
2025	Pennsylvania State University IST Rising Star Award (\$500)
2025	CHI 2025 Best Paper Honorable Mention Award [C.4]
2024-2025	ACM CHI Special Recognition for Outstanding Reviews
2024	EMNLP Outstanding Reviewer
2024	Pennsylvania State University Jordan Rednor Award (\$3000)
2024	Notre Dame-IBM Tech Ethics Hackathon – Second Place (\$2000)
2024	University of Notre Dame Department Service Award
2023 - 2024	University of Notre Dame Lucy Graduate Scholar (\$3000)
2023	University of Notre Dame CSE Best Design Poster Honorable Mention Award
2023	AAAI 2023 Student Scholarship (\$1000)
2021	University of Minnesota Fellowship from the Institution of Linguistics (\$2000)
2020	CSCW 2020 Outstanding Poster Recognition Award [P.1]
2016 - 2018	University of Minnesota Culture Corps Award (\$500)
2018	University of Minnesota Linh's Undergrad Internship Award (\$2000)
2016	University of Minnesota Dean's List Award

# PEER-REVIEWED CONFERENCE PAPERS

- C.6 Adriana Alvarado Garcia\*, **Ruyuan Wan\***, Ozioma Collins Oguine, Karla Badillo-Urquiola. "Red Teaming LLMs as Socio-Technical Practice: From Exploration and Data Creation to Evaluation." *Under review at CHI 2026.*
- Q. C.5 Ruyuan Wan\*, Lingbo Tong\*, Tiffany Knearem, Toby Jia-Jun Li, Ting-Hao 'Kenneth' Huang, Qunfang Wu. "Hashtag Re-Appropriation for Audience Control on Recommendation-Driven Social Media Xiaohongshu (rednote)." In Proceedings of the CHI Conference on Human Factors in Computing Systems, pp. 1-35 (CHI 2025). Best Paper Honorable Mention Award.

- C.4 Min-Hsuan Yeh, Ruyuan Wan, Ting-Hao 'Kenneth' Huang. "CoCoLoFa: A Dataset of News Comments with Common Logical Fallacies Written by LLM-Assisted Crowds." In Proceedings of Conference on Empirical Methods in Natural Language Processing (EMNLP 2024).
- C.3 Zainab Agha, Jinkyung Park, Ruyuan Wan, Naima Samreen Ali, Yiwei Wang, Dominic Difranzo, Karla Badillo-Urquiola, Pamela J. Wisniewski. "Tricky vs. Transparent: Towards an Ecologically Valid and Safe Approach for Evaluating Online Safety Nudges for Teens." In Proceedings of the CHI Conference on Human Factors in Computing Systems, pp. 1-20 (CHI 2024).
- C.2 Oghenemaro Anuyah, **Ruyuan Wan**, Cornelius Adejoro, Tom Yeh, Ronald Metoyer, Karla Badillo-Urquiola. "Cultural Considerations in AI Systems for the Global South: A Systematic Review." *In Proceedings of the 4th African Human Computer Interaction Conference, pp. 125-134 (AfriCHI 2023).*
- C.1 **Ruyuan Wan**, Jaehyung Kim, Dongyeop Kang. "Everyone's Voice Matters: Quantifying Annotation Disagreement Using Demographic Information." *In Proceedings of the AAAI Conference on Artificial Intelligence, vol. 37, no. 12, pp. 14523-14530 (AAAI 2023).*

# PEER-REVIEWED POSTERS, WORKSHOP PAPERS

- P.6 **Ruyuan Wan\***, Haonan Wang, Ting-Hao 'Kenneth' Huang, Jie Gao. "From Noise to Nuance: Enriching Subjective Data Interpretation through Qualitative Analysis." *Under review at the HCI + NLP workshop, EMNLP 2025*.
- P.5 **Ruyuan Wan\***, Simret Gebreegziabher\*, Toby Jia-Jun Li, Karla Badillo-Urquiola. "CoCo Matrix: Taxonomy of Cognitive Contributions in Co-writing with Intelligent Agents." *In Proceedings of the 16th Conference on Creativity & Cognition (C&C 2024).*
- P.4 **Ruyuan Wan**, Jie Gao. "Leveraging the Strengths of Qualitative Analysis to Improve Data Annotation." *CHI 2024 Workshop on Large Language Models as Research Tools*
- P.3 London Lowmanstone\*, **Ruyuan Wan\***, Risako Owan, Jaehyung Kim, Dongyeop Kang. "Annotation Imputation to Individualize Predictions: Initial Studies on Distribution Dynamics and Model Predictions." *In Proceedings of the Second Workshop on Perspectivist Approaches to NLP, ECAI 2023*
- P.2 **Ruyuan Wan**, Naome Etori, Karla Badillo-Urquiola, Dongyeop Kang. "User or Labor: An Interaction Framework for Human-Machine Relationships in NLP." *In Proceedings of the Fourth Workshop on Data Science with Human-in-the-Loop (Language Advances), EMNLP 2022*
- P.1 Ruyuan Wan, Zachary Levonian, and Svetlana Yarosh. "How much is a "like" worth? Engagement and Retention in an Online Health Community." In Companion Publication of the 2020 Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2020).
  Outstanding Poster Recognition Award.

# PROFESSIONAL EXPERIENCE

- Aug 2025 Jul 2026 Visiting Researcher, Cornell University. Ithaca, NY, US
  Working with my advisor Prof. Ting-Hao 'Kenneth' Huang in the Department of Information Science during his sabbatical from Penn State University.
- May 2025 Aug 2025 HCI Research Scientist Intern, IBM Thomas J. Watson Research Center. Yorktown, NY, US Conducted interviews and systematic literature reviews to study how AI practitioners create, develop and evaluate red teaming datasets.
- Oct 2021 Jan 2022 NLP Research Intern, Samsung Research America Inc. Mountain View, CA, US
  Reviewed academic papers, reproduced baseline models, and developed a state-of-the-art coreference resolution model for long dialogues.

July 2021 - Sept 2021 Data Science Intern, Tencent. Shenzhen, China

Processed data using SQL and Spark, applied XGBoost for churn rate prediction, and developed a BERT-based recommendation system integrating users' sequential behavior and social networks.

June 2020 – Aug 2020 Data Science Intern, Ecolab. Eagan, MN, US

Built an end-to-end ML pipeline with Microsoft Azure and developed LSTM models for inventory usage forecasting, improving prediction accuracy by 10%.

July 2019 – Aug 2019 Data Science Intern, Michael J Fox Foundation for Parkinson's Research. Manhattan, NY, US Conducted statistical analysis and survival analysis in R to uncover patterns among study participants and provided recommendations for improving study participation.

## **TEACHING EXPERIENCE**

2024 SP, 2023 SP	CSE 40175 Ethical and Professional Issues, University of Notre Dame
2023 FA	CSE 10101 Elements of Computing, University of Notre Dame
2022 FA	CSE 20110 Discrete Mathematics, University of Notre Dame
2021 SP	MSBA 6420 Predictive Analytics, University of Minnesota
2020 SP	CSCI 5521 Introduction to Machine Learning, University of Minnesota
2021 SP, 2020 FA, 2019 SP, 2019 FA, 2018 FA	CSCI 2011 Discrete Mathematics, University of Minnesota
2018 SP	STAT 3011 Introduction to Statistical Analysis, University of Minnesota

#### **SERVICE**

Associate Chair CHI 2025 Late Breaking Work, CSCW 2024 Paper Track, CSCW 2023 Poster Track

Committee Member The 12th Mid-Atlantic Student Colloquium on Speech, Language and Learning

ND CSE DEI Committee, 2023 – 2024

The Seventh Workshop on Online Abuse and Harms at ACL 2023

The Second Workshop on Intelligent and Interactive Writing Assistants at CHI 2023

**Workshop Organizer** ACL 2025 4th Workshop on NLP for Positive Impact

NeurIPS 2024 Workshop on Pluralistic Alignment CSCW 2023 Workshop on Community-driven AI

Session Chair Alt-FAccT 2025 Paper Session

CHI 2025 Session on Social Media, Online Community, Sensemaking

CHI 2024 Session on Politics of Datasets

**Reviewer** ACL ARR 2024, AAAI 2024, C&C 2024 – 2025, CSCW 2023 – 2025, CHI 2022 – 2025,

DIS 2023 – 2024, FAccT 2023 – 2025, ICLR 2024, IJCAI 2024, ICML 2024 – 2025,

LREC-COLING 2024, NeurIPS 2023

Student Volunteer CHI 2023 – 2024, CSCW 2023, FAccT 2023, AAAI 2023, EMNLP 2022, ACL 2022

Research Mentor Caelan Templeton, Darwin Estrella Vicente – ND CSE Undergrad Summer Enrichment Program 2024

Naol Taye - ACL Year-Round Mentorship Program

**Social Chair** Graduate Society of Women Engineers (SWE) 2023 – 2024

#### **INVITED TALKS**

T.1 User Agency and Creative Adaptation on Algorithm-Driven Platforms

Invited talk at Microsoft AI Development Acceleration Program

Host: Somya Sharma Chatterjee August 22, 2025

# **MEDIA COVERAGE**

## M.1 **S** Image Synthesis Has an SEO Problem

Metaphysic Blog, Martin Anderson, January 24, 2023

#### M.2 M.S. student receives Outstanding Poster recognition at CSCW 2020

UMN CSE News, Crystal King, November 3, 2020

## **GRANTS**

2025	UPAC Travel Fund (\$500)
2024 - 2025	IST Travel Award (\$2000)
December 2024	NeurIPS Travel Grant Sponsored by OpenAI (\$1100)
November 2023	WiNLP Workshop at EMNLP Travel Grant (\$500)
June 2023	ACM Travel Grant for FAccT 2023 (\$450)
February 2023	Nanovic Institute For European Studies Graduate Grant (\$2000)
2023 - 2024	CSE Career Development Grant (\$750)
2023 - 2024	Writing Accountability Group Grant (\$480)
2022 - 2024	Notebaert Professional Development Fund (\$1500)
2022 - 2024	Graduate Student Government Conference Presentation Grant (\$680)
2019	Research Stipend from the Weisman Art Museum (\$200)

## **SKILLS**

Programming Languages: Python, R, SQL, JavaScript, HTML, and others

**NLP, Machine Learning, and Statistics:** GPT, Hugging Face, TensorFlow, PyTorch, Spacy, Gensim, NLTK, BERT-based models, transformer models, classification, clustering, regression, hypothesis testing, Bayesian analysis, data visualization, and more

**Qualitative Analysis:** Thematic analysis, grounded theory, interviews, formative study, persona analysis, participatory design, and more

Interface Design, Prototyping, & Development: Figma, Photoshop, Sketch, storyboarding, React, and more