

# Mengyuan (Millie) Wu

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## RESEARCH INTERESTS

My research focuses on designing, engineering and evaluating **Human–AI systems** that reason over multimodal context to support **personalization, productivity, behavior change, and interactive experiences**. I am particularly interested in building efficient systems that can be deployed and adopted in **real-world settings**.  
**Applied AI, Agentic system, Human-Computer Interaction**

## EDUCATION

- 2026 – Current **Columbia University**, New York, NY  
Ph.D. in Computer Science
- 2023-2025 **Columbia University**, New York, NY  
M.S. in Computer Science | *GPA: 4.02*
- 2017-2019 **Columbia University**, New York, NY  
B.S. in Operations Research (Major) & Psychology (Minor) | *GPA: 3.94*

## PUBLICATION

- 2026 📄 **Wu, Mengyuan**, Jiang, Z.\* , Fan, Y.\* , Feng, R., Dharmavaram, S., Fallon, S., Polowitz, M., Islam, B., Benson, L., Tung, I., Creswell, J. D., Xu, X. *MindfulAgents: Personalizing Mindfulness Meditation via an Expert-Aligned Multi-Agent System*. **ACM CHI 2026 (Honorable Mention Award, top 5%)**

Li, Z.\* , He, X.\* , **Wu, Mengyuan**, Tong, Z., Wei, H., Yang, B., Feiner, S., Sajda, P. *SwEYEpinch: Exploring Intuitive, Efficient Text Entry for Extended Reality via Eye and Hand Tracking*. **ACM CHI 2026**

### *Work in Progress*

Li, Z.\* , He, X.\* , Chen, H.\* , Zuo, J.\* , Yang, B., Bai, S., **Wu, Mengyuan**, Feiner, S., Sajda, P. *Enhance Human Performance with XR Agent Learning from Behavioral and BCI Evidence*. Aiming for UIST 2026

Jiang, Z.\* , **Wu, Mengyuan\***, Zou, R., Xu, S., Xu, X. *The Comfort That Follows You: LLM-powered Multi-modal Physical-to-Digital Pet Companions*. Aiming for IMWUT 2026

**Wu, Mengyuan**, Ke, W., Xu, X. *"Live Your Day, Twice": A Value-Aligned AI-Enabled Mental Rehearsal System For Daily Planning*. Aiming for ACM CHI 2027

Li, Z., Rong, K., **Wu, Mengyuan**, Yamauchi, A., Chen, H., Peng, Y., Tao, T., Sajda, P. *Physiological Foundation Models for Robotic Attention Reorientation*. Aiming for Nature Machine Intelligence

## SELECTED PRESS

2026 *"Mental Health: Unpacking the AI Revolution in Therapeutic Support."* **Sci PaperMill**

## AWARDS & HONORS

2026 **ACM CHI 2026 Honorable Mention Award** (top 5%)

2024 **2<sup>nd</sup> Place of Intel AI Track Hackathon** (Hoohacks, University of Virginia)

**1<sup>st</sup> Place of NeuReality AR/VR Competition** (Columbia University)

2017-2019 **Tau Beta Pi Engineering Honors** (Columbia University, top 1/8<sup>th</sup>)

2014 **Davis UWC Scholar** (United World College Southeast Asia)

## RESEARCH EXPERIENCE

2024 - Current **SEA Lab, Columbia University** New York, NY  
Research Assistant, Mentor: Xuhai "Orson" Xu

2024 **LIINC and CGUI, Columbia University** New York, NY  
Research Assistant, Mentor: Steve Feiner and Paul Sadja

## INDUSTRY EXPERIENCE

2025 - Current **Equa Health (CMU Funded Start-up)**, Full-Stack Software Engineer (Part-time)

2021 - 2023 **Evercore Partners**, Vice President of Investment Research

2019 - 2021 **Citigroup Capital Markets**, Investment Research Associate

## POSTER & PRESENTATIONS

2025 **AI Agents for Work, DAP Lab**, presented poster

**AI at VP&S Workshop: Foundation Models Across Scales: From Cells to Health Systems**, presented poster

## TEACHING

Fall 2024 **COMS W4995: Applied Machine Learning** (Course Teaching Assistant)

Spring 2019 **IEOR E3609: Advanced Optimization** (Course Teaching Assistant)

## MENTORING

2025 **Akito Yamauchi** (Columbia University B.S.)

2024 - 2025 **Zeyi Tong** (Columbia University B.S.)

## PAPER REVIEW

2025 **ACM CHI Conference on Human Factors in Computing Systems** (2026)  
**ACM Transactions on Computing for Healthcare** (2025)

## SKILLS

**Research**      **Data Analysis:** Python, PyTorch, MATLAB, R  
**Methods:** Qualitative, Quantitative and Mixed Methods  
**User Research:** Longitudinal Study, Formative Study, User Interaction Design, User Surveys, Thematic Analysis, Interviews, Participatory Design

**Prototyping**      **Software:** React, Typescript, Javascript, HTML, FastAPI, Langchain, Google Cloud, Firebase, Git  
**Hardware:** Wearable Sensor Integration, EEG, Arduino, Micro-controllers, Circuit Prototyping  
**Design:** Figma, Adobe Creative Tool Kits

## OTHER INTEREST

**Interdisciplinary Reading** (Philosophy, Literature, Psychology) | **Road Cycling**  
| **Vocals** (Jazz & Country)