

# Dong Whi Yoo, PhD

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## Research Areas

Human-Computer Interaction (HCI); Human-AI Interaction; Digital Mental Health; Medical Informatics

## Appointments

### Assistant Professor (Tenure-Track)

Department of Human-Centered Computing, Luddy School of Informatics, Computing, and Engineering, Indiana University Indianapolis, Indianapolis, IN (Jul 2025 -)

### Assistant Professor (Tenure-Track)

School of Information, Kent State University, Kent, OH (Sep 2023 - May 2025)

### Visiting Scientist

Zucker Hillside Hospital, Northwell Health, Glen Oaks, NY (Aug 2022 - May 2023)

### Research Intern

Mayo Clinic, Rochester, MN (May 2022 - Aug 2022)

### UX Research Intern

Meta, Menlo Park, CA (May 2020 - July 2020)

## Education

### Ph.D. in Human-Centered Computing

School of Interactive Computing, Georgia Institute of Technology

### Master of Science in Human-Computer Interaction

School of Interactive Computing, Georgia Institute of Technology

### Master of Fine Art in Media Art

Graduate School of Communication & Arts, Yonsei University

### Bachelor of Business Administration

College of Business Administration, Seoul National University

## Publications

### Refereed Journal Articles

- [J1] **Yoo, D. W.**, Shi, J. M., Rodriguez, V. J., & Saha, K. (2026). AI Chatbots for Mental Health Self-Management: A Lived Experience-Centered Qualitative Study. *JMIR Mental Health*. In press.
- [J2] Zhu, X., Stroud, A. M., **Yoo, D. W.**, Minter, S. A., Mooghali, M., Miller, J., & Barry, B. (2026). Key information influencing patient decision-making about AI in healthcare: A survey experiment. *Journal of medical internet research*, 28, e75615.

- [J3] Shi, J. M., Wang, K., **Yoo, D. W.**, Karkar, R., & Saha, K. (2025). Balancing Caregiving and Self-Care: Exploring Mental Health Needs of Alzheimer's and Dementia Caregivers. *Proceedings of the ACM on Human-Computer Interaction*, 9(7), 1-36.
- [J4] Bowen, M., Beam, M., Semb, J., & **Yoo, D. W.** (2025). Evaluating Theory-Driven Messaging to Overcome the Barriers to Meditation: A Large-Scale Digital Field Experiment. *JMIR Mental Health*, 12, e71732.
- [J5] **Yoo, D. W.**, Woo, H., Pendse, S., Lu, N., Birnbaum, M., Abowd, G., & De Choudhury, M.(2024). Missed Opportunities for Human-Centered AI Research: Understanding Stakeholder Collaboration in Mental Health AI Research. *Proceedings of the ACM on Human-Computer Interaction*, 8 (CSCWI), 1-24.
- [J6] **Yoo, D. W.**, Bhatnagar, A., Ernala, S. K., Ali, A., Birnbaum, M. L., Abowd, G. D., & De Choudhury, M. (2023). Discussing Social Media During Psychotherapy Consultations: Patient Narrative and Privacy Implications. *Proceedings of the ACM on Human-Computer Interaction*, 7 (CSCWI). 1-24.
- [J7] Mooghali, M., Stroud, A. M., **Yoo, D. W.**, Barry, B. A., Grimshaw, A. A., Ross, J. S., Zhu, X., & Miller, J. E. (2024). Trustworthy and ethical AI-enabled cardiovascular care: a rapid review. *BMC Medical Informatics and Decision Making*, 24(1), 247.
- [J8] Park, J. W., Sun, S. X., Cheng, T., **Yoo, D. W.**, Zhou, J., Do, Y., Abowd, G. D., & Arriaga, R. I. (2023). Exergy: A Toolkit to Simplify Creative Applications of Wind Energy Harvesting. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 7(1), 1-28. (Impact factor: 4.0)
- [J9] Ernala, S. K., Seybolt, J., **Yoo, D. W.**, Birnbaum, M. L., Kane, J. M., & De Choudhury, M. (2022). The Reintegration Journey Following a Psychiatric Hospitalization: Examining the Role of Social Technologies. *Proceedings of the ACM Human-Computer Interaction*, 6(CSCWI), 1-31.
- [J10] Zhou, J., Saha, K., Lopez Carron, I. M., **Yoo, D. W.**, Deeter, C. R., De Choudhury, M., & Arriaga, R. I. (2022). Veteran Critical Theory as a Lens to Understand Veterans' Needs and Support on Social Media. *Proceedings of the ACM Human-Computer Interaction*, 6(CSCWI), 1-28.
- [J11] Kruzan, K. P., Williams, K. D., Meyerhoff, J., **Yoo, D. W.**, O'Dwyer, L. C., De Choudhury, M., & Mohr, D. C. (2022). Social Media-Based Interventions for Adolescent and Young Adult Mental Health: A Scoping Review. *Internet Intervention*, 100578.
- [J12] **Yoo, D. W.**, Ernala, S. K., Saket, B., Weir, D., Arenare, E., Ali, A. F., ... & De Choudhury, M. (2021). Clinician perspectives on using computational mental health insights from patients' social media activities: design and qualitative evaluation of a prototype. *JMIR Mental Health*, 8(11), e25455.
- [J13] **Yoo, D. W.**, Birnbaum, M. L., Van Meter, A. R., Ali, A. F., Arenare, E., Abowd, G. D., & De Choudhury, M. (2020). Designing a Clinician-Facing Tool for Using Insights From Patients' Social Media Activity: Iterative Co-Design Approach. *JMIR Mental Health*, 7(8), e16969.

### Heavily Peer-Reviewed Conference Proceedings<sup>1</sup>

- [C1] Bhat, K., Shi, J. M., Song, W., **Yoo, D. W.**, Saha, K. (2026). "In my defense, only three hours on Instagram": Designing Toward Digital Self-Awareness and Wellbeing. *In Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems*. Forthcoming (Acceptance rate: 25.3%)

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<sup>1</sup> Top-tier human-computer interaction (HCI) conferences, such as CHI and DIS, are renowned for rigorous peer review and primarily focus on publishing archival research papers. These venues often exceed journals in exclusiveness, visibility, and overall impact. For further information, please refer to [this article](#). Additionally, acceptance rates are provided next to each citation when available.

- [C2] **Yoo, D. W.**, Stroud, A. M., Zhu, X., Miller, J., & Barry, B. (2025). Toward Patient-Centered AI Fact Labels: Leveraging Extrinsic Trust Cues. In *Proceeding of the 2025 ACM Designing Interactive Systems Conference (DIS)* (Acceptance rate: 24.24%).
- [C3] **Yoo, D. W.**, Woo, H., Nguyen, C. V., Birnbaum, M., Kruzan, K., Kim, J., Abowd, J., & De Choudhury, M. (2024). Patient Perspectives on AI-Driven Predictions of Schizophrenia Relapses: Understanding Concerns and Opportunities for Self-Care and Treatment. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems* (Acceptance rate: 26.4%).
- [C4] Hall, K., **Yoo, D. W.**, Zhang, W., Bin Morshed, M., Das Swain, V., Abowd, G. D., ... & Kim, J. G. (2022). Supporting the Contact Tracing Process with WiFi Location Data: Opportunities and Challenges. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems* (Acceptance rate: 24.7%).
- [C5] **Yoo, D. W.**, & De Choudhury, M. (2019). Designing dashboard for campus stakeholders to support college student mental health. In *Proceedings of the 13th EAI International Conference on Pervasive Computing Technologies for Healthcare*.
- [C6] Saha, K., Reddy, M. D., das Swain, V., Gregg, J. M., Grover, T., Lin, S., ... **Yoo, D.W.**, ... & De Choudhury, M. (2019). Imputing missing social media data stream in multisensor studies of human behavior. In *Proceedings of the 2019 8th International Conference on Affective Computing and Intelligent Interaction*.

## Presentations

### Invited Presentations:

- Lived Experience Centered AI in Mental Health, SALT Lab, School of Information Sciences, University of Illinois Urbana-Champaign, 2025
- Lived Experience Centered AI in Mental Health. ASIS&T Webinars. 2025
- Lived Experience Centered AI in Mental Health. Data Science for Mental Health (DS4MH) @ The Alan Turing Institute. 2025
- Designing Patient-Centered Facts Labels for Healthcare AI/ML Technologies. USA Food and Drug Administration (FDA) Digital Health Center of Excellence. 2022
- Understanding the Role of Social Media Powered AI Technology for Mental health Consultations. HCI@KAIST. 2021

### Posters:

- Kwon, S., **Yoo, D. W.**, Kang, Y. (2024). Spiritual AI: Exploring the Possibilities of a Human-AI Interaction Beyond Productive Goals. Poster presented at CHI 2024.

## Grant

- **Building a Community–University Partnership with NAMI Greater Indianapolis to Advance Community-Based Mental Health**  
Award Category: Community Health Partnership Trailblazer Planning Grant Award  
Sponsor: Indiana Clinical and Translational Sciences Institute (Indiana CTSI)

Team: **Dong Whi Yoo (PI)**, Audrey Elam (Community Partner Lead)  
Total award: \$4,956 (2026-2027)

- **Generative AI for Addiction Recovery: Enhancing Personalized Engagement, Outcomes, and Predictive Relapse**

Award Category: Small Business Innovative Research (SBIR) Phase 1

Sponsor: Department of Defense

Team: Saahoon Hong (MPI), Lawrence Smith (MPI), **Dong Whi Yoo (Co-I)**, Hea-Won Kim (Co-I), Kalea Benner (Co-I), Jaehwa Choi (Co-I)

Total award: \$149,100 (2025-2026)

- **Supporting Mental Wellbeing of Family Caregivers of AD/ABRD through an AI-based Conversational Agent**

Award Category: National a2 Pilot Award

Sponsor: a2 Collective / National Institute of Aging (NIA)

Team: Ravi Karkar (PI), **Dong Whi Yoo (Co-I)**, Koustuv Saha (Co-I), Violeta J. Rodriguez (Co-I)

Total award: \$260,000 (2025-2026)

- **AI-Assisted Wellbeing Support for Family Caregivers of Dementia Patients**

Award Category: Jump Applied Research for Community Health through Engineering and Simulation (Jump ARCHES)

Sponsor: OSF Healthcare

Team: Koustuv Saha (MPI), Daneil S. Brown (MPI), **Dong Whi Yoo (Co-I)**, Ravi Karkar (Co-I), Violeta J. Rodriguez (Co-I)

Total Award: \$100,000 (2025-2026)

## Career Development & Training

- NSF-funded training institute: Consortium for Sociotechnical Systems (CSST) Summer Research Institute, 2024
- CRA (Computing Research Association) Career Mentoring Workshop, 2026

## Awards & Recognition

- Honorary Mention, Prix Ars Electronica 2024
- Special recognition for outstanding reviews for CHI 2022 and 2025.
- Special recognition for outstanding reviews for CSCW 2024 and 2026.
- 2nd place, Georgia Tech Convergence Innovation Competition, 2016.

## Teaching Experience

### Indiana University Indianapolis

Instructor of Record

- Spring 2026 INFO-H583 Conversational User Interfaces: Experience Design and Applications
- Fall 2025 INFO-H565 Collaborative and Social Computing

### Kent State University

### Instructor of Record

- Spring 2025 UX60504 Accessibility and Universal Design
- Spring 2025 UX60503 Fundamentals of Interaction Design
- Fall 2024 UX60504 Accessibility and Universal Design
- Fall 2024 UX60112 Interaction in Practice
- Spring 2024 UXD20001 Introduction to User Experience Design
- Spring 2024 UXD60002 User Experience Design in Practice
- Fall 2023 UXD60002 User Experience Design in Practice

### Georgia Institute of Technology

#### Teaching Assistant

- CS3001 Computing, Society, and Professionalism: Spring 2021; Spring 2023.

## Mentoring

- Divya Kapoor, MS in Data Science, IU Indianapolis, Research assistant, Fall 2025
- Kavya Tiyyagura, MS-HCI student, IU Indianapolis, Research assistant, Fall 2025
- Denisse Henriquez Dubon, MS-HCI student, IU Indianapolis, Research assistant, Fall 2025
- Vishakha Reddy, MS-HCI student, IU Indianapolis, Research assistant, Fall 2025
- Tirth Rathod, MS-HCI student, IU Indianapolis, Research assistant, Fall 2025
- Diva Shah, MS-HCI student, IU Indianapolis, Research assistant, Fall 2025
- Avani Lalka, MS-HCI student, IU Indianapolis, Research assistant, Fall 2025
- Maria Cindy Sanchez Castro, MS-HCI student, IU Indianapolis, Advised on an independent study, Fall 2025
- Rahul Ubale, MS-HCI student, IU Indianapolis, Advised on an independent study, Fall 2025
- Anagha Nagesh, MS-HCI student, IU Indianapolis, Advised on an independent study, Fall 2025
- Jyothсна Peddi, MS-HCI student, IU Indianapolis, Advised on an independent study, Fall 2025
- Andrew Tanner, MS-HCI student, IU Indianapolis, Advised on an independent study, Fall 2025
- Shyama Dash, MS-HCI student, IU Indianapolis, Advised on an independent study, Fall 2025
- Mike Bowen, PhD student, Kent State University, Advised on an independent study, Summer 2024
- Theorose Elikplim Dzineku, PhD student, Kent State University, Advised on an independent study, Spring 2024
- Nolan King, Undergraduate student, Kent State University, Summer Undergraduate Research Experience (SURE) fellow, Summer 2024
- Soonho-Kwon, BS Information and Interaction Design, Yonsei University, Spring 2023 -
- Johnny (Cuong) Nguyễn, MS Computer Science, Georgia Tech, Fall 2022 - Spring 2023
- Hayoung Woo, MS Human-Computer Interaction, Georgia Tech, Fall 2021 - Spring 2023
- Neharika Khandavalli, MS Human-Computer Interaction, Georgia Tech, Spring 2021
- Aditi Bhatnagar, MS Human-Computer Interaction, Georgia Tech, Spring 2021
- Lu Meng, MS Human-Computer Interaction, Georgia Tech, Spring 2021
- Kelsie Belan, MS Human-Computer Interaction, Georgia Tech, Spring 2019

## **Service**

### **External Service**

- CHI 2026 Program Committee (Health Subcommittee)
- CSCW 2026 Program Committee
- CHI 2025 Program Committee (Health Subcommittee)
- Session Chair, CSCW 2025
- CSCW 2025 Program Committee for the October 2024 cycle
- CSCW 2025 Program Committee for the July 2024 cycle
- CSCW 2024 Program Committee for the January 2024 cycle
- Session Chair, CSCW 2023

### **Peer Review**

- CHI Conference on Human Factors in Computing Systems (CHI): 2020-2025
- Proceedings of the ACM Human-Computer Interaction: 2020-2025
- Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies: 2026
- ACM Designing Interactive Systems Conference (DIS): 2025, 2026
- ACM Transactions on Computing for Healthcare (ACM Health): 2025
- ACL Rolling Review: 2026
- Npj Digital Medicine: 2025, 2026
- Journal of Medical Internet Research (JMIR): 2019,2020,2024
- Humanities and Social Sciences Communications: 2025
- Behaviour & Information Technology: 2024, 2025
- International Journal of Human-Computer Interaction (IJHCI): 2024-2025

### **Professional Membership**

Association for Computing Machinery (ACM)

American Medical Informatics Association (AMIA)