

# Xuhai “Orson” Xu

 orsonxu.com |  xx2489@columbia.edu |  ·  ·  ·  · 

---

## RESEARCH FOCUS

Drawing from human-computer interaction, applied AI/ML, and health, I develop **deployable behavior modeling algorithms** to monitor various health and well-being conditions using everyday sensor data and health records. Leveraging these models, I further design and deploy **intelligent intervention & interaction techniques** that help users achieve personal health and well-being goals and support health experts in making decisions.

## EMPLOYMENT

Starting in Jan 2025	<b>Columbia University</b> - Tenure-Track Assistant Professor <i>Department of Biomedical Informatics</i>
2023 – Present	<b>Massachusetts Institute of Technology</b> - Postdoctoral Associate <i>Department of Electrical Engineering and Computer Science</i> <i>Advisors: Marzyeh Ghassemi</i>

## EDUCATION

2018 – 2023	<b>University of Washington</b> <i>Ph.D., Information School</i> <i>Advisors: Anind K. Dey &amp; Jennifer Mankoff</i> Thesis: “Computational Support for Longitudinal Well-Being” <i>Distinguished Dissertation Award &amp; Innovation and Technology Award</i>
2014 – 2018	<b>Tsinghua University</b> <i>B.E. in Industrial Engineering (Major) &amp; Computer Science (Minor)</i>

## AWARDS AND HONORS

### Research Awards

2024	<b>Innovation and Technology Award</b> (Western Association of Graduate Schools, top 0.1%) <b>Best Paper Award</b> (ACM CHI, top 1%)
2023	<b>Distinguished Paper Award</b> (ACM UbiComp, top 1%) <b>Distinguished Dissertation Award</b> (University of Washington, top 0.5%) <b>Best Paper Honorable Mention Award</b> (ACM CHI, top 5%) <b>Best Paper Nominee Award</b> (IEEE VR, top 5%) <b>Best Artifact Award</b> (ACM W4A, top 1)
2022	<b>Best Paper Honorable Mention Award</b> (ACM CHI, top 5%) <b>Best Paper Award</b> (TPCI, top 3) <b>Best Artifact Award</b> (ACM ASSETS, top 3)
2020	<b>Best Paper Honorable Mention Award</b> (ACM CHI, top 5%)
2018	<b>Best Paper Honorable Mention Award</b> (ACM CHI, top 5%)

## Scholarship & Other Honors

- 2023 | **Future Faculty Scholar** (Cornell University)
- 2022 | **Gaetano Borriello Outstanding Student Award Winner** (ACM UbiComp)
- 2018 | **Outstanding Undergraduate Awards** (Tsinghua, top 0.5%)  
**Annual Person of Dept. of Industrial Engineering** (Tsinghua, top 1%)  
**XieXin Scholarship** (Tsinghua, top 1%)
- 2017 | **Outstanding Winner of 35th Challenge Cup** (Leader, Tsinghua, top 2%)  
**GaoTong Scholarship** (Tsinghua, top 1%)
- 2016 | **DongshiDongfang Scholarship** (Tsinghua, top 1%)  
**Changhong Scholarship** (Tsinghua, top 2%)

## FUNDING AND GRANTS

- 2022 | **Google Health** (\$50,000 – Heart Rate and Well-Being)  
Led the effort of fundraising, with the PhD advisor as PI.
- 2019 | **Samsung Research America GRO Agreement** (\$150,000 – Personalized Behavior Modeling)  
Main Personnel; Contributed to the grant writing, with the PhD advisor as PI.

## PROFESSIONAL EXPERIENCE

- 2022 | **Meta Reality Lab** – Research Intern  
Developed an explainable AI Framework in AR [P.24] Redmond, WA  
*Collabs:* H. Benko, A. Yu
- 2021 | **Apple** – Research Intern  
Developed a gesture customization framework [P.16] Cupertino, CA  
*Collabs:* G. Laput, S. Hudson
- 2020 | **Samsung Research America** – Research Intern  
Developed a pipeline for lung health detection by cough [P.11] Mountain View, CA  
*Collabs:* J. Kuang, A. Gao
- 2019 | **Microsoft Research** – Research Intern  
Deployed an large-scale explainable doc rec experiments [P.o] Redmond, WA  
*Collabs:* S. Dumais, A. Awadallah
- 2017 | **MIT Media Lab** – Research Assistant  
Worked on breathing interaction and others in VR [P.-4] Boston, MA  
*Collabs:* P. Maes, M. Sra

## SELECTED PUBLICATIONS

### Conference & Journal Publications

- 2024 [P.36] Adiba Orzikulova, Han Xiao, Zhipeng Li, Yukang Yan, Yuntao Wang, Yuanchun Shi, Marzyeh Ghassemi, Sung-Ju Lee, Anind K. Dey, **Xuhai Xu**  
Time2Stop: Adaptive and Explainable Human-AI Loop for Smartphone Overuse Intervention  
**CHI 2024** – 2024 ACM CHI Conference on Human Factors in Computing Systems
- [P.35] Ruolan Wu, Chun Yu, Xiaole Pan, Yujia Liu, Ningning Zhang, Yue Fu, Yuhan Wang, Zhi Zheng, Li Chen, Qiaolei Jiang, **Xuhai Xu**, Yuanchun Shi  
MindShift: Leveraging LLMs for Mental-States-Based Problematic Smartphone Use Intervention  
**CHI 2024** – 2024 ACM CHI Conference on Human Factors in Computing Systems
- [P.34] **Xuhai Xu**, Bingshen Yao, Yuanzhe Dong, Saadia Gabriel, Hong Yu, James Hendler, Marzyeh Ghassemi, Anind K. Dey, Dakuo Wang  
Mental-LLM: Leveraging Large Language Models for Mental Health Prediction via Online Text Data  
**IMWUT 2024** – Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies

- [P.33] Ziqi Yang\*, **Xuhai Xu**\*, Bingsheng Yao, Shao Zhang, Ethan Rogers, Stephen Intille, Nawar Shara, Dakuo Wang. \*Equally contributed.  
Talk2Care: Facilitating Asynchronous Patient-Provider Communication with Large-Language-Model  
**IMWUT 2024** – *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*
-  [P.32] Yue Fu, Sami Foell, **Xuhai Xu**, Alexis Hiniker  
From Text to Self: Users' Perception of AIMC Tools on Interpersonal Communication and Self  
**CHI 2024** – *2024 ACM CHI Conference on Human Factors in Computing Systems*  
**[Best Paper Award]**
- [P.31] Zeyu Wang, Yuanchun Shi, Yuntao Wang, Yc Yao, Kun Yan, Yuhan Wang, Lei Ji, **Xuhai Xu**, Chun Yu  
G-VOILA: Gaze-Facilitated Information Querying in Daily Scenarios  
**IMWUT 2024** – *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*
- [P.30] Zachary Englhardt, Chengqian Ma, Margaret Morris, Chun-Cheng Chang, **Xuhai Xu**, Lianhui Qin, Daniel McDuff, Xin Liu, Shwetak Patel, Vikram Iyer  
From Classification to Clinical Insights: Towards Analyzing and Reasoning About Mobile and Behavioral Health Data With Large Language Models  
**IMWUT 2024** – *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*
- [P.29] Tao Lu, Hongxiao Zheng, Tianying Zhang, **Xuhai Xu**, Anhong Guo  
InteractOut: Leveraging Interaction Proxies as Input Manipulation Strategies for Reducing Smartphone Overuse  
**CHI 2024** – *2024 ACM CHI Conference on Human Factors in Computing Systems*
- [P.28] Shaoyue Wen, Songming Ping, Jialin Wang, Hai-Ning Liang, **Xuhai Xu**, Yukang Yan  
AdaptiveVoice: Cognitively Adaptive Voice Interface for Driving Assistance  
**CHI 2024** – *2024 ACM CHI Conference on Human Factors in Computing Systems*
- [P.27] Shao Zhang, Jianing Yu, **Xuhai Xu**, Changchang Yin, Yuxuan Lu, Bingsheng Yao, Melanie Tory, Lace M. Padilla, Jeffrey Caterino, Ping Zhang, Dakuo Wang  
Rethinking Human-AI Collaboration in Complex Medical Decision Making: A Case Study in Sepsis Diagnosis  
**CHI 2024** – *2024 ACM CHI Conference on Human Factors in Computing Systems*
- [P.26] Xun Qian, Tianyi Wang, **Xuhai Xu**, Tanya R. Jonker, Kashyap Todi  
Fast-Forward Reality: Authoring Error-Free Context-Aware Policies with Real-Time Unit Tests in Extended Reality  
**CHI 2024** – *2024 ACM CHI Conference on Human Factors in Computing Systems*
- 2023  [P.25] **Xuhai Xu**, Xin Liu, Han Zhang, Weichen Wang, Subgiya Nepal, Yasaman Sefidgar, Woosuk Seo, Kevin S. Kuehn, Jeremy Huckins, Margaret E. Morris, Paula S. Nurius, Eve A. Riskin, Shwetak Patel, Tim Althoff, Andrew Campbell, Anind K. Dey, Jennifer Mankoff  
GLOBEM: Cross-Dataset Generalization of Longitudinal Human Behavior Modeling  
**IMWUT 2023** – *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*  
**[Distinguished Paper Award]**
-  [P.24] **Xuhai Xu**, Mengjie Yu, Tanya R. Jonker, Kashyap Todi, Feiyu Lu, Xun Qian, João Marcelo Evangelista Belo, Tianyi Wang, Michelle Li, Aran Mun, Te-Yen Wu, Junxiao Shen, Ting Zhang, Narine Kokhlikyan, Fulton Wang, Paul Sorenson, Sophie Kahyun Kim, Hrvoje Benko  
XAIR: A Framework of Explainable AI in Augmented Reality  
**CHI 2023** – *2023 ACM CHI Conference on Human Factors in Computing Systems*  
**[Best Paper Honorable Mention Award]**

- [P.23] Yuntao Wang, Zirui Cheng, Xin Yi, Yan Kong, Xueyang Wang, **Xuhai Xu**, Yukang Yan, Chun Yu, Shwetak Patel, Yuanchun Shi  
Modeling the Trade-off of Privacy Preservation and Activity Recognition on Low-Resolution Images  
**CHI 2023** – 2023 ACM CHI Conference on Human Factors in Computing Systems
- [P.22] Yuan Yao, Li Huang, Yi He, Zhijun Ma, **Xuhai Xu**, Haipeng Mi  
Reviewing and Reflecting Smart Home Research from the Human-Centered Perspective  
**CHI 2023** – 2023 ACM CHI Conference on Human Factors in Computing Systems
- [P.21] David Creswell, Michael J. Tumminia, Stephen Price, Yasaman Sefidgar, Sheldon Cohen, Yiyi Ren, Jennifer Brown, Anind K. Dey, Janine M. Dutcher, Daniella Villalba, Jennifer Mankoff, **Xuhai Xu**, Kasey Creswell, Afsaneh Doryab, Stephen Mattingly, Aaron Striegel, David Hachen, Gonzalo Martinez, Marsha C. Lovett  
Nightly sleep duration predicts grade point average in the first year of college  
**PNAS** – Proceedings of the National Academy of Sciences of the United States of America
- [P.20] Yincheng Jin, Shibo Zhang, Yang Gao, **Xuhai Xu**, Seokmin Choi, Zhengxiong Li, Henry J Adler, Zhanpeng Jin  
SmartASL: “Point-of-Care” Comprehensive ASL Interpreter Using Wearables  
**IMWUT 2023** – Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies
-  [P.19] Ather Sharif, Aneasha Ramesh, Qianqian Yu, Trung-Anh H Nguyen, **Xuhai Xu**  
UnlockedMaps: A Web-Based Map for Visualizing Real-Time Accessibility of Rail Transit Stations  
**W4A 2023** – 20th International Web for All Conference  
**[Best Artifact Award]**
-  [P.18] Yukang Yan, Haohua Liu, Yingtian Shi, Jingying Wang, Ruici Guo, Zisu Li, Chun Yu, **Xuhai Xu**, Yuntao Wang, Yuanchun Shi  
ConeSpeech: Exploring Directional Speech Interaction for Multi-Person Remote Communication in VR  
**TVCG** – IEEE Transactions on Visualization and Computer Graphics  
**[Best Paper Nominee Award]**
- 2022 [P.17] **Xuhai Xu**, Han Zhang, Yasaman Sefidgar, Yiyi Ren, Xin Liu, Woosuk Seo, Jennifer Brown, Kevin Kuehn, Mike Merrill, Paula Nurius, Shwetak Patel, Tim Althoff, Margaret E. Morris, Eve Riskin, Jennifer Mankoff, Anind K. Dey  
GLOBEM Dataset: Multi-Year Datasets for Longitudinal Human Behavior Modeling Generalization  
**NeurIPS 2022** – 36th Neural Information Processing Systems Track on Datasets & Benchmarks
-  [P.16] **Xuhai Xu**, Jun Gong, Carolina Brum, Lilian Liang, Bongsoo Suh, Kumar Gupta, Yash Agarwal, Laurence Lindsey, RunchangKang, Behrooz Shahsavari, Tu Nguyen, Heriberto Nieto, Scott E. Hudson, Charlie Maalouf, Seyed Mousavi, Gierad Laput  
Enabling hand gesture customization on wrist-worn devices  
**CHI 2022** – 2022 ACM CHI Conference on Human Factors in Computing Systems  
**[Best Paper Honorable Mention Award]**
- [P.15] **Xuhai Xu**, Tianyuan Zou, Xiao Han, Yanzhang Li, Ruolin Wang, Tianyi Yuan, Yuntao Wang, Yuanchun Shi, Jennifer Mankoff, Anind K. Dey  
Timeout: Leveraging just-in-time self-affirmation for smartphone overuse reduction  
**CHI 2022** – 2022 ACM CHI Conference on Human Factors in Computing Systems
- [P.14] Yang Li, Dan Wu, Jie Zhang, **Xuhai Xu**, Yaxiong Xie, Tao Gu, Daqing Zhang  
DiverSense: Maximizing Wi-Fi Sensing Range Leveraging Signal Diversity  
**IMWUT 2022** – Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies
- [P.13] Yincheng Jin, Yang Gao, **Xuhai Xu**, Seokmin Choi, Jiyang Li, Feng Liu, Zhengxiong Li, Zhanpeng Jin  
EarCommand: “Hearing” Your Silent Speech Commands In Ear  
**IMWUT 2022** – Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies

- 2021 [P.12] **Xuhai Xu**, Prerna Chikersal, Janine M. Dutcher, Yasaman S. Sefidgar, Woosuk Seo, Michael J. Tumminia, Daniella K. Villalba, Sheldon Cohen, J. David Creswell, Kasey Creswell, Afsaneh Doryab, Paula S. Nurius, Eve A. Riskin, Anind K. Dey, Jennifer Mankoff  
Leveraging Collaborative-Filtering for Personalized Behavior Modeling: A Case Study of Depression Detection among College Students  
**IMWUT 2021** – *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*
- [P.11] **Xuhai Xu**, Ebrahim Nemati, Korosh Vatanparvar, Viswam Nathan, Tousif Ahmed, Mdmahbubur Rahman, Daniel Mccaffrey, Jilong Kuang, Jun Alex Gao  
Listen2Cough: Leveraging End-to-End Deep Learning Cough Detection Model to Enhance Lung Health Assessment Using Passively Sensed Audio  
**IMWUT 2021** – *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*
- [P.10] **Xuhai Xu**, Jiahao Li, Tianyu Yuan, Liang He, Xin Liu, Yuntao Wang, Yuanchun Shi, Jennifer Mankoff, Anind K. Dey  
HulaMove: Using Commodity IMU for Waist Interaction  
**CHI 2021** – *2021 ACM CHI Conference on Human Factors in Computing Systems*
- [P.9] Zihan Wu, Chun Yu, **Xuhai Xu**, Tong Wei, Tianyuan Zou, Ruolin Wang, Yuanchun Shi  
LightWrite: Teach Handwriting to The Visually Impaired with Only A Smartphone  
**CHI 2021** – *2021 ACM CHI Conference on Human Factors in Computing Systems*
- [P.8] Mingrui Zhang, Ruolin Wang, **Xuhai Xu**, Qisheng Li, Ather Sharif, Jacob Wobbrock  
Voicemoji: Emoji Entry Using Voice for Visually Impaired People  
**CHI 2021** – *2021 ACM CHI Conference on Human Factors in Computing Systems*
- [P.7] Chen Liang, Chun Yu, Xiaoying Wei, **Xuhai Xu**, Yuntao Wang, Yuanchun Shi  
Auth+Track: Enabling Authentication Free Interaction on Smartphone by Continuous User Tracking  
**CHI 2021** – *2021 ACM CHI Conference on Human Factors in Computing Systems*
- [P.6] Yuzhou Zhuang, Yuntao Wang, Yukang Yan, **Xuhai Xu**, Yuanchun Shi  
ReflectTrack: Enabling 3D Acoustic Position Tracking Using Commodity Dual-Microphone Smartphones  
**UIST 2021** – *34th Annual ACM Symposium on User Interface Software and Technology*
-  [P.5] **Xuhai Xu**, Jennifer Mankoff, Anind K. Dey  
Understanding Practices & Needs of Researchers in Human State Modeling by Passive Mobile Sensing  
**TPCI 2021** – *CCF Transactions on Pervasive Computing and Interaction*  
**[Best Paper Award]**
- [P.4] Xin Liu, Ziheng Jiang, Josh Fromm, **Xuhai Xu**, Shwetak Patel, Daniel McDuff  
MetaPhys: Few-Shot Adaptation for Non-Contact Physiological Measurement  
**CHIL 2021** – *2021 ACM Conference on Health, Inference, and Learning*
- [P.3] Margaret E. Morris, Kevin S. Kuehn, Jennifer Brown, Paula S. Nurius, Han Zhang, Yasaman S. Sefidgar, **Xuhai Xu**, Eve A. Riskin, Anind K. Dey, Sunny Consolvo, Jennifer Mankoff  
College from home during COVID-19: A mixed-methods study of heterogeneous experiences  
**PLOS ONE 2021** – *PLOS ONE, PLOS*
- 2020 [P.2] **Xuhai Xu**, Chun Yu, Yuntao Wang, Yuanchun Shi  
Recognizing Unintentional Touch on Interactive Tabletop  
**IMWUT 2020** – *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*
- [P.1] **Xuhai Xu**, Haitian Shi, Xin Yi, Jiawen Liu, Yukang Yan, Yuanchun Shi, Alex Mariakakis, Jennifer Mankoff, Anind K. Dey  
EarBuddy: Enabling On-Face Interaction via Wireless Earbuds  
**CHI 2020** – *2020 ACM CHI Conference on Human Factors in Computing Systems*

- [P.o] **Xuhai Xu**, Farnaz Jahanbakhsh, Farheen Omar, Bogdan Popp, Robert Rounthwaite, Ahmed Hassan Awadallah, Susan T. Dumais  
Understanding User Behavior For Document Recommendation  
**WWW 2020** – 2020 *The Web Conference*
- 🐛 [P.-1] Yukang Yan, Chun Yu, Wengrui Zheng, Ruining Tang, **Xuhai Xu**, Yuanchun Shi  
FrownOnError: Interrupting Responses from Smart Speakers by Facial Expressions  
**CHI 2020** – 2020 *ACM CHI Conference on Human Factors in Computing Systems*  
**[Best Paper Honorable Mention Award]**
- 2019 [P.-2] **Xuhai Xu**, Prerna Chikersal, Afsaneh Doryab, Daniella K. Villalba, Janine M. Dutcher, Michael J. Tuminia, Tim Althoff, Sheldon Cohen, Kasey Creswell, J. David Creswell, Jennifer Mankoff, Anind K. Dey  
Leveraging Routine Behavior and Contextually-Filtered Features for Depression Detection among College Students  
**IMWUT 2019** – *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*
- [P.-3] **Xuhai Xu**, Chun Yu, Anind K. Dey, Jennifer Mankoff  
Clench Interaction: Novel Biting Input Techniques  
**CHI 2019** – 2019 *ACM CHI Conference on Human Factors in Computing Systems*
- 2018 🐛 [P.-4] Misha Sra\*, **Xuhai Xu**\*, Pattie Maes. \*Equally contributed.  
BreathVR: Leveraging Breathing as a Directly Controlled Interface for Virtual Reality Games  
**CHI 2018** – 2018 *CHI Conference on Human Factors in Computing Systems*  
**[Best Paper Honorable Mention Award]**
- [P.-5] **Xuhai Xu**, Alexandru Dancu, Pattie Maes, Suranga Nanayakkara  
Hand Range Interface: Information Always at Hand with A Body-centric Mid-air Input Surface  
**MobileHCI 2018** – 20th *International Conference on HCI with Mobile Devices and Services*
- [P.-6] Mingyuan Zhong, Chun Yu, Qian Wang, **Xuhai Xu**, Yuanchun Shi  
ForceBoard: Subtle Text Entry Leveraging Pressure  
**CHI 2018** 2018 *CHI Conference on Human Factors in Computing Systems*

## Posters & Extended Abstract & Workshop Papers

- 2024 [W.5] Subigya Nepal, Arvind Pillai, William Campbell, Talie Massachi, Eunsol Soul Choi, **Xuhai Xu**, Joanna Kuc, Jeremy Huckins, Jason Holden, Colin Depp, Nicholas Jacobson, Mary Czerwinski, Eric Granholm, Andrew Campbell  
Contextual AI Journaling: Integrating LLM and Time Series Behavioral Sensing Technology to Promote Self-Reflection and Well-Being Using the MindScape App  
**CHI 2024** (LBW) – 2024 *CHI Conference on Human Factors in Computing Systems*
- 2022 [W.4] **Xuhai Xu**  
Towards Future Health and Well-Being: Bridging Behavior Modeling and Intervention  
**UIST 2022** (DC) – 35th *Annual ACM Symposium on User Interface Software and Technology*
- 🏆 [W.3] Ather Sharif, Aneesha Ramesh, Trung-Anh Nguyen, Luna Chen, Kent Richard Zeng, Lanqing Hou, **Xuhai Xu**  
UnlockedMaps: Visualizing Real-Time Accessibility of Urban Rail Transit Using a Web-Based Map  
**ASSETS 2022** (Poster) – 24th *International ACM SIGACCESS Conference on Computers and Accessibility*  
**[Best Artifact Award]**
- [W.2] Tengxiang Zhang, Xin Zeng, Yinshuai Zhang, Xin Jiang, **Xuhai Xu**, Anind K. Dey, Yiqiang Chen  
BoldMove: Enabling IoT Device Control on Ubiquitous Touch Interfaces by Semantic Mapping  
**CHI 2022** (LBW) – 2022 *CHI Conference on Human Factors in Computing Systems*

2020 [W.1] Liang He, Ruolin Wang, **Xuhai Xu**  
 PneuFetch: Supporting Blind & Visually Impaired People to Fetch Nearby Object via Light Haptic Cues  
**CHI 2020** (LBW) – 2020 CHI Conference on Human Factors in Computing Systems

## ACADEMIC SERVICE

### Editor, Chair, Committee

2024	<b>Associate Chair</b> ACM CHI 2024 <b>Program Committee</b> ACM WSDM 2024 <b>Program Committee</b> ACM TheWebConf 2024 <b>Program Committee</b> ACM FAccT 2024 <b>Organizer</b> ACM UbiComp 2024 – Mental Health Workshop (co-lead)
2023	<b>Organizer</b> ACM UbiComp 2023 – Mental Health Workshop (co-lead) <b>Judge</b> ACM UbiComp 2023 – Student Challenge <b>Junior Chair</b> AHLI ML4H 2023 – Research Roundtable <b>Program Committee</b> ACM WSDM 2023 <b>Program Committee</b> ACM TheWebConf 2023
2022	<b>Organizing Committee</b> ACM UbiComp 2022 – Workshop Chair <b>Program Committee</b> ACM WSDM 2022 <b>Program Committee</b> ACM TheWebConf 2022
2021	<b>Guest Editor</b> ACM XRDS 2021 Fall Issue: <a href="#">Is Computing Toxic?</a> <b>Organizing Committee</b> ACM UbiComp 2021 – Web Chair <b>Program Committee</b> ACM TheWebConf 2021 <b>Session Chair</b> ACM UbiComp 2021
2020	<b>Associate Chair</b> ACM CHI 2020 Late Breaking Work <b>Program Committee</b> ACM TheWebConf 2020 <b>Program Committee</b> ACM IUI 2020 – Posters and Demos
2019	<b>Program Committee</b> ACM TheWebConf 2019 – Health on the Web <b>Program Committee</b> ACM UbiComp 2019 – Workshop AppLens

### Reviewer

HCI	<b>ACM CHI; ACM UIST; ACM CSCW; ACM IUI; ACM FAccT;</b> <b>International Journal of Human-Computer Interaction; ACM MobileHCI;</b> <b>ACM DIS; ACM IDC; ACM TEI; ACM ISS; ACM VRST; IEEE ISMAR</b> <b>🏆 Outstanding Reviewer Recognition – ACM CHI 2022, 2024; ACM UIST 2022, 2023</b>
UbiComp	<b>ACM IMWUT; IEEE THMS; IEEE Pervasive Computing;</b> <b>Pervasive and Mobile Computing; Frontiers of Computer Science</b>
Health	<b>JAMIA; ACM HEALTH; AHLI ML4H; ACM CHIL; MLHC</b>
ML & Data Mining	<b>NeurIPS; ACM TheWebConf; ACM WSDM; ACM TKDD; AAAI</b>

## INVITED TALK

- 2024 | **Columbia University**  
**University of California San Diego**  
**University of Southern California**  
**University of Minnesota**  
**Purdue University**  
**University of Virginia**  
**University of North Carolina at Chapel Hill**  
**University of Texas at Austin**  
**Northeastern University**  
**University of Notre Dame**  
**Virginia Tech**  
**Imperial College of London**  
**National University of Singapore**
- 2023 | **Harvard University**  
**UMich-Ann Arbor**  
**University of California Berkeley**  
**Massachusetts Institute of Technology**  
**Carnegie Mellon University**  
**University of Illinois Urbana-Champaign**  
**Brown University**  
**Georgia Tech**  
**University of Washington – eScience Institute**  
**Google**  
**Stanford University**
- 2022 | **Hong Kong University of Science and Technology**  
**Cornell Tech**  
**Georgia Tech**  
**University of Chicago**  
**University at Buffalo**  
**Duke University**
- 2021 | **Northwestern University**  
**Tsinghua University – Academy of Arts & Design**  
**Peking University**  
**Chinese Academy of Sciences**  
**Beihang University**  
**Northwestern Polytechnical University**  
**University of Washington – Design, Use, Build**  
**Human, Technology, Future Forum**
- 2020 | **Tsinghua University – Dept of Computer Science & Technology**  
**Zhejiang University**  
**Fudan University**  
**Zhejiang University of Technology**



## TEACHING EXPERIENCE

### Instructor

- 2023 | **INFO 340 – Client-Side Web Development**, University of Washington  
Undergraduate-level course, 70 students
- 2020 – 2022 | **GIX Summer – Statistics in HCI**, University of Washington  
Undergraduate-level course, 30 students

### Teaching Assistant

- 2021 | **INFO 371: Advanced Methods in Data Science**, University of Washington  
Undergraduate-level course, 50 students (Instructor: Jevin West)
- 2020 | **IMT 574: Machine Learning and Econometrics**, University of Washington  
Graduate-level course, 30 students (Instructor: Chirag Shah)
- 2017 | **CS 274: Fundamentals of Programming in C++**, Tsinghua University  
Undergraduate-level course, 200 students (Instructor: Li Zhen)

### Guest Lecturer

- 2024 | **Intelligent Behavior Intervention**  
In 6.S977 Ethical Machine Learning in Human Deployments, MIT
- 2023 | **Bottom-up and Top-down Research Methods in Ubiquitous Computing**  
In INFO 300: Research Methods, University of Washington
- 2023 | **Computational Longitudinal Well-being**  
In CSE 7170: Human-Centered Artificial Intelligence Systems, Northeastern University
- 2022 | **Computational Mental Health**  
In CSE 99: Biometric Computing Research Seminar, University at Buffalo
- 2021 | **Regularization in Machine Learning**  
In INFO 371: Advanced Methods in Data Science, University of Washington

## MENTORING EXPERIENCE

### Graduate Student

- 2022 – 2024 | **Adiba Orzikulova** – junior KAIST CS PhD  
*Supervising Adiba to lead a just-in-time adaptive intervention project for phone overuse.*
- 2023 – 2024 | **Varsha Sandadi** – MIT Master’s Engineering  
*Supervising Varsha on a human-AI interaction project for equitable mental health support.*
- 2021 – 2024 | **Han Xiao** – University of Calgary CS Master’s  
*Supervising Han on two intervention projects for smartphone overuse. [P.15]*
- 2023 – 2024 | **Ziqi Yang** – UMich iSchool Master’s  
*Supervising Ziqi on an LLM project for older patient-provider communication.*
- 2022 – 2023 | **Shuning Zhang** – junior Tsinghua CS PhD  
*Supervising Shuning on a domain adaption project for behavior modeling.*
- 2022 – 2023 | **Wujun Shi** – Beijing University of Posts and Telecommunications CS Master’s  
*Supervising Wujun to lead a domain adaption project for behavior modeling.*

- 2020 – 2022 | **Yanzhang Li** – UW GIX Master’s (currently at Tencent)  
*Supervised Yanzhang on a phone-use intervention project. [P.15]*
- 2020 – 2021 | **Victor Chen** – Stanford University CS Master’s  
*Supervised Victor on a project about mouth-gesture design.*
- 2019 – 2020 | **Haitian Shi** – Tsinghua Automobile Master’s (Currently Founder of GraphOrigin)  
*Supervised Haitian on an earbud interaction technique. [P.1]*
- 2019 – 2020 | **David Dai** – UW GIX Master’s (currently at Airbnb)  
*Supervised David on a longitudinal passive sensing data collection project.*

## Undergraduate Student

- 2023 – 2024 | **Reina Wang** – MIT CS & Math  
*Supervising Reina on projects about human-AI interaction for health.*
- 2019 – 2023 | **Jiahao Li** – University of Washington CS & Statistics (Currently at Uber)  
*Supervising Jiahao on multiple projects in HCI and Ubicomp. [P.10]*
- 2021 – 2023 | **Randy Zhang** – University of Washington CS  
*Supervising Randy on a systematic survey project on passive mobile sensing.*
- 2022 – 2023 | **Yitong Li** – University of Washington CS & Statistics  
*Supervising Yitong on a systematic survey project on passive mobile sensing.*
- 2020 – 2022 | **Tianyuan Zou** – Tsinghua University CS (currently CS PhD at Tsinghua)  
*Supervised Tianyuan on a phone-use intervention project. [P.15]*
- 2020 – 2022 | **Tianyi Yuan** – Tsinghua University Industrial Engineering (currently IE PhD at Tsinghua)  
*Supervised Tianyi on a phone-use intervention project. [P.15]*
- 2021 – 2022 | **Renad Sehat** – University of Washington Global Health  
*Supervised Renad on participant onboarding for a data collection project.*
- 2021 – 2022 | **Yashasvi Joginapally** – University of Washington Informatics  
*Supervised Yashasvi on data checking for a longitudinal data collection project.*
- 2021 – 2022 | **Matthew Hung** – University of Washington Electric Engineering  
*Supervised Matthew on data mining for a longitudinal data collection project.*
- 2021 – 2022 | **Michelin Lin** – University of Washington Bioengineering  
*Supervised Michelin on data quality checking a passive sensing data collection project.*
- 2020 – 2021 | **Wenjun Chen** – University of Washington CS (currently at Meta)  
*Supervised Wenjun on an education data-mining project.*
- 2019 – 2020 | **Jacqueline Li** – University of Washington Informatics (currently at Google)  
*Supervised Jacqueline on app development for a passive sensing data collection project.*
- 2022 | **Medha Kulkarni** – Indiana University Purdue University  
**Gabriela Vega** – Peruvian University of Applied Sciences  
**Hiwot Tadesse** – Benedict College  
**Dong Wang** – Colgate University  
*Led a 3-month workshop for students from underrepresented minority groups on a leg sensing project.*

## SELECTED PRESS

- 2024 | [AI pop-ups can help you stop doomscrolling on your phone](#)  
New Scientist
- 2024 | [Xuhai Xu focused on developing an artificial intelligence intervention system](#)  
UW Graduate School
- 2024 | [Researchers Test Generative AI's Utility for Accessibility](#)  
Communication of ACM & UW News
- 2023 | [A new framework to design explainable AI for AR applications](#)  
TechXplore – Featured Press
- 2023 | [The less college students sleep, the worse their grades, study finds](#)  
The Washington Post
- 2023 | [Ph.D. Student Works to Unlock Devices' Insights](#)  
UW iSchool News
- 2022 | [Riding public transit can be a gamble for people with disabilities](#)  
Philadelphia Inquirer
- 2022 | [UnlockedMaps provides real-time accessibility info for urban rail transit in 6 metro areas](#)  
UW News
- 2021 | [They are not far apart on the map – Helping China Henan province's people after torrential rains](#)  
China Daily
- 2021 | [From 'distress' to 'unscathed' — mental health of UW students during spring 2020.](#)  
UW News
- 2021 | [Dancing with Myself: HulaMove makes your digital devices submit to your every command through the power of your dance moves.](#)  
Hackster.io News
- 2021 | [System using smartphone or computer cameras to measure pulse, respiration rate could help future personalized telehealth](#)  
ACM Technews & UW News

## REFERENCE

**Anind K. Dey** (*doctoral advisor*)

Professor  
Dean of the Information School  
University of Washington  
[anind@uw.edu](mailto:anind@uw.edu)

**Jennifer Mankoff** (*doctoral advisor*)

Richard E. Ladner Endowed Professor  
Associate Director of the Paul G. Allen School  
University of Washington  
[jmankoff@cs.washington.edu](mailto:jmankoff@cs.washington.edu)

**Tim Althoff**

Assistant Professor of the Paul G. Allen School  
University of Washington  
[althoff@cs.washington.edu](mailto:althoff@cs.washington.edu)

**Marzyeh Ghassemi** (*postdoctoral advisor*)

Assistant Professor in EECS and IMES  
Vector Institute Canadian CIFAR AI Chair and Canada Research Chair  
Massachusetts Institute of Technology  
[mghassem@csail.mit.edu](mailto:mghassem@csail.mit.edu)

**Andrew T. Campbell**

Albert Bradley 1915 Third Century Professor  
Dartmouth College  
[campbell@cs.dartmouth.edu](mailto:campbell@cs.dartmouth.edu)

**Shwetak Patel**

Washington Research Foundation Entrepreneurship Endowed Professor  
of the Paul G. Allen School and Department of EE  
University of Washington  
[shwetak@cs.washington.edu](mailto:shwetak@cs.washington.edu)