Xuhai "Orson" Xu

🌐 orsonxu.com | ✉ xoxu@mit.edu | 🎓 · 🐙 · in · 🐦

RESEARCH FOCUS

Drawing from human-computer interaction, ubiquitous computing, applied AI/ML, and health, I develop **deployable behavior modeling algorithms** to monitor various health and well-being conditions. Leveraging these models, I further design and deploy **intelligent intervention & interaction techniques** that help achieve health and well-being goals.

EDUCATION

2018 – 2023	**University of Washington** *Ph.D., Information School* — *Advisors:* Anind K. Dey & Jennifer Mankoff Thesis: "Computational Support for Longitudinal Well-Being". Committee: Anind K. Dey (Chair), Jennifer Mankoff (co-Chair), Tim Althoff, Andrew Campell *Distinguished Dissertation Award*
2014 – 2018	**Tsinghua University** *B.E. in Industrial Engineering (Major) & Computer Science (Minor)* — GPA: 95/100, Rank: 1/63 *Outstanding Undergraduate Award*

EMPLOYMENT

2023 – Present	**Massachusetts Institute of Technology** - Postdoctoral Associate *Department of Electrical Engineering and Computer Science* — *Advisors:* Marzyeh Ghassemi

AWARDS AND HONORS

Research Awards

2023	**Distinguished Paper Award** (ACM UbiComp, top 1%) **Distinguished Dissertation Award** (University of Washington, top 0.5%) **Best Honorable Mention Award** (ACM CHI, top 5%) **Best Paper Nominee Award** (IEEE VR, top 5%) **Best Artifact Award** (ACM W4A, top 1)
2022	**Best Paper Honorable Mention Award** (ACM CHI, top 5%) **Best Paper Award** (TPCI, top 3) **Best Artifact Award** (ACM ASSETS, top 3)
2020	**Best Paper Honorable Mention Award** (ACM CHI, top 5%)
2018	**Best Paper Honorable Mention Award** (ACM CHI, top 5%)

Scholorship & 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   Redmond, WA
Developed an explainable AI Framework in AR [P.31]   *Collabs*: H. Benko, A. Yu

2021 | **Apple** – Research Intern   Cupertino, CA
Developed a gesture customization framework [P.23]   *Collabs*: G. Laput, S. Hudson

2020 | **Samsung Research America** – Research Intern   Mountain View, CA
Developed a pipeline for lung health detection by cough [P.18]   *Collabs*: J. Kuang, A. Gao

2019 | **Microsoft Research** – Research Intern   Redmond, WA
Deployed an large-scale explainable doc rec experiments [P.7] *Collabs*: S. Dumais, A. Awadallah

2017 | **MIT Media Lab** – Research Assistant   Boston, MA
Worked on breathing interaction and others in VR [P.3]   *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, <u>**Xuhai Xu**</u>
Time2Stop: Adaptive and Explainable Human-AI Loop for Smartphone Overuse Intervention
CHI 2024 – *2024 ACM CHI Conference on Human Factors in Computing Systems* (under revision)
[Principal Investigator Role]

[P.35] Ruolan Wu, Chun Yu, Xiaole Pan, Yujia Liu, Ningning Zhang, Yue Fu, Yuhan Wang, Zhi Zheng, Li Chen, Qiaolei Jiang, <u>**Xuhai Xu**</u>, 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* (under revision)
[Principal Investigator Role]

[P.34] <u>**Xuhai Xu**</u>, 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*, <u>**Xuhai Xu**</u>*, 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* (under revision)
[Mentoring Role]

2023 🏆 **[P.32]** <u>**Xuhai Xu**</u>, 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 Campell, 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.31]** <u>**Xuhai Xu**</u>, 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.30] Yuntao Wang, Zirui Cheng, Xin Yi, Yan Kong, Xueyang Wang, <u>**Xuhai Xu**</u>, 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.29] Yuan Yao, Li Huang, Yi He, Zhijun Ma, <u>**Xuhai Xu**</u>, 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.28] 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, <u>**Xuhai Xu**</u>, 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.27] Yincheng Jin, Shibo Zhang, Yang Gao, <u>**Xuhai Xu**</u>, 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.26]** Ather Sharif, Aneesha Ramesh, Qianqian Yu, Trung-Anh H Nguyen, <u>**Xuhai Xu**</u>
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.25]** Yukang Yan, Haohua Liu, Yingtian Shi, Jingying Wang, Ruici Guo, Zisu Li, Chun Yu, <u>**Xuhai Xu**</u>, 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.24]** <u>**Xuhai Xu**</u>, 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.23] **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.22] **Xuhai Xu**, Tianyuan Zou, Xiao Han, Yanzhang Li, Ruolin Wang, Tianyi Yuan, Yuntao Wang, Yuanchun Shi, Jennifer Mankoff, Anind K. Dey
Typeout: Leveraging just-in-time self-affirmation for smartphone overuse reduction
CHI 2022 – *2022 ACM CHI Conference on Human Factors in Computing Systems*

[P.21] 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.20] 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.19] **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.18] **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.17] **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.16] 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.15] 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.14] 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.13] 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.12] **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.11] 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.10] 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.9] **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.8] **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.7] **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.6] 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.5] **Xuhai Xu**, Prerna Chikersal, Afsaneh Doryab, Daniella K. Villalba, Janine M. Dutcher, Michael J. Tum-
minia, 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 Col-
lege Students
IMWUT 2019 – *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*

[P.4] **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.3] 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.2] **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.1] 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

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

Reviewer

HCI	**ACM CHI** (2019 - 2024); **ACM UIST** (2020 - 2023); **ACM CSCW** (2021 - 2023); **ACM FAccT** (2024); **ACM MobileHCI** (2020 - 2022); **ACM DIS** (2020 - 2022); **ACM IDC** (2020 - 2021); **ACM IUI** (2020 - 2021); **ACM TEI** (2022 - 2023); **ACM ISS** (2022); **ACM VRST** (2021); **IEEE ISMAR** (2023); 🏆 *Outstanding Reviewer Recognition* – ACM CHI 2022 (*twice*), ACM UIST 2022, 2023
UbiComp	**ACM IMWUT** (2018 - 2024); **IEEE THMS** (2020 - 2024); **IEEE Pervasive Computing** (2024); **Pervasive and Mobile Computing** (2023); **Frontiers of Computer Science** (2021)
Health	**JAMIA** (2024); **ACM HEALTH** (2020 - 2024); **AHLI ML4H** (2023 - 2024)
ML & Data Mining	**ACM TheWebConf** (2019-2024); **NeurIPS** (2022-2023); **ACM WSDM** (2022-2024); **ACM TKDD** (2023); **AAAI** Workshop (2022)

INVITED TALK

2023	**Harvard University**, hosted by Finale Doshi-Velez
	UMich-Ann Arbor, hosted by Anhong Guo
	UC Berkeley-UCSF, hosted by Ahmed Alaa
	Massachusetts Institute of Technology, hosted by Wojciech Matusik
	Carnegie Mellon University, hosted by Mayank Goel
	University of Illinois Urbana-Champaign, hosted by Karrie Karahalios
	Brown University, hosted by Jeff Huang
	Georgia Tech, hosted by Josiah Hester
	University of Washington – eScience Institute, hosted by David Beck
	Google, hosted by Chunjong Park
	Stanford University, hosted by Nava Haghighi
2022	**Hong Kong University of Science and Technology**, hosted by Xiaojuan Ma
	Cornell Tech, hosted by Tanzeem Choudhury
	Georgia Tech, hosted by Gregory Abowd
	University of Chicago, hosted by Pedro Lopes
	University at Buffalo, hosted by Yang Gao
	Duke University, hosted by Xin Tong
2021	**Northwestern University**, hosted by Nabil Alshurafa
	Tsinghua University – Academy of Arts & Design, hosted by Ying-Qing
	Peking University, hosted by Daqing Zhang
	Chinese Academy of Sciences, hosted by Feng Tian
	Beihang University, hosted by Dangxiao Wang
	Northwestern Polytechnical University, hosted by Zhiwen Yu
	University of Washington – Design, Use, Build, hosted by James Fogarty
	Human, Technology, Future Forum, hosted by Xiangshi Ren
2020	**Tsinghua University** – Dept of Computer Science & Technology, hosted by Xin Yi
	Zhejiang University, hosted by Gang Pan
	Fudan University, hosted by Xianghua Ding
	Zhejiang University of Technology, hosted by Shiwei Cheng

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

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 – present	**Adiba Orzikulova** – junior KAIST CS PhD *Supervising Adiba to lead a just-in-time adaptive intervention project for phone overuse.*
2023 – present	**Varsha Sandadi** – MIT Master's Engineering *Supervising Varsha on a human-AI interaction project for equitable mental health support.*
2021 – present	**Han Xiao** – University of Calgary CS Master's *Supervising Han on two intervention projects for smartphone overuse.* [P.22]
2023 – present	**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.22]

2020 – 2021	**Victor Chen** – Standford 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.8]
2019 – 2020	**David Dai** – UW GIX Master's (currently at Airbnb)
	Supervised David on a longitudinal passive sensing data collection project.

Undergraduate Student

2023 – Present	**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.17]
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.22]
2020 – 2022	**Tianyi Yuan** – Tsinghua University Industrial Engineering (currently IE PhD at Tsinghua)
	Supervised Tianyi on a phone-use intervention project. [P.22]
2021 – 2022	**Renad Sehat** – University of WashingtonGlobal 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	**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

Jennifer Mankoff (*doctoral advisor*)
Richard E. Ladner Endowed Professor
Associate Director of the Paul G. Allen School
University of Washington
jmankoff@cs.washington.edu

Tim Althoff
Assistant Professor of the Paul G. Allen School
University of Washington
althoff@cs.washington.edu

Marzyeh Ghassemi (*postdocoral 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

Andrew T. Campbell
Albert Bradley 1915 Third Century Professor
Dartmouth College
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