

Xuhai (Orson) Xu

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EDUCATION

UNIVERSITY OF WASHINGTON

2018 - PRESENT

Ph.D. candidate, Information School

Advisors: Anind K. Dey & Jennifer Mankoff

TSINGHUA UNIVERSITY

2014 - 2018

B.E. in Industrial Engineering (Major) & Computer Science (Minor)

GPA: 95/100, Rank: 1/63

RESEARCH INTERESTS

Human-Computer Interaction, Ubiquitous Computing, Data Mining, Applied Machine Learning

PUBLICATION

JOURNAL PAPER

- [J.3] **Xuhai Xu**, Prerna Chikersal, Janine M. Dutcher, Yasaman S. Sefidgar, Woosuk Seo, Michael J. Tumminia, Daniella K. Villalba, Sheldon Cohen, J. David Creswell, Kasey G. 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. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (IMWUT), Volume 4 Issue 2, May. 2020. ACM, New York, NY, USA. (Under Major Revision)
- [J.2] **Xuhai Xu**, Chun Yu, Yuntao Wang, Yuanchun Shi. 2020. Recognizing Unintentional Touch on Interactive Tabletop. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (IMWUT), Volume 4 Issue 1, Mar. 2020. ACM, New York, NY, USA.
- [J.1] **Xuhai Xu**, Prerna Chikersal, Afsaneh Doryab, Daniella K. Villalba, Janine M. Dutcher, Michael J. Tumminia, Tim Althoff, Sheldon Cohen, Kasey G. Creswell, J. David Creswell, Jennifer Mankoff, Anind K. Dey. Leveraging Routine Behavior and Contextually-Filtered Features for Depression Detection among College Students. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (IMWUT), Volume 3 Issue 3, Sept. 2019. ACM, New York, NY, USA

CONFERENCE PAPER

- [C.9] **Xuhai Xu**, Haitian Shi, Xin Yi, Jiawen Liu, Yukang Yan, Yuanchun Shi, Alex Mariakakis, Jennifer Mankoff, Anind K. Dey. 2020. EarBuddy: Enabling On-Face Interaction via Wireless Earbuds. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems* (CHI '20). ACM, New York, NY, USA.
- [C.8] **Xuhai Xu**, Farnaz Jahanbakhsh, Farheen Omar, Bogdan Popp, Robert Rounthwaite, Ahmed Hassan Awadallah, Susan T. Dumais. 2020. Understanding User Behavior For Document Recommendation. In *Proceedings of the 2020 World Wide Web Conference* (WWW), 2020. ACM, New York, NY, USA.

- [C.7] Yukang Yan, Chun Yu, Wengrui Zheng, Ruining Tang, **Xuhai Xu**, Yuanchun Shi. 2020. FrownOnError: Interrupting Responses from Smart Speakers by Facial Expressions. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems* (CHI '20). ACM, New York, NY, USA. (**Best Paper Honorable Mentioned Award**)
- [C.6] Farnaz Jahanbakhsh, Susan Dumais, Ahmed Hassan Awadallah, **Xuhai Xu**. 2020. Effects of Past Interactions on User Experience with Recommended Documents. In *Proceedings of the 2020 Conference on Human Information Interaction and Retrieval* (CHIIR), 2020. ACM, New York, NY, USA.
- [C.5] **Xuhai Xu**, Chun Yu, Anind K. Dey, Jennifer Mankoff. 2019. Clench Interaction: Novel Biting Input Techniques. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems* (CHI'19). ACM, New York, NY, USA.
- [C.4] Misha Sra*, **Xuhai Xu***, and Pattie Maes. 2018. BreathVR: Leveraging Breathing as a Directly Controlled Interface for Virtual Reality Games. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems* (CHI '18). ACM, New York, NY, USA. (**Best Paper Honorable Mentioned Award**) *Equally contributed.
- [C.3] My Zhong, Chun Yu, Qian Wang, **Xuhai Xu**, Yuanchun Shi. 2018. ForceBoard: Subtle Text Entry Leveraging Pressure. *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems* (CHI '18). ACM, New York, NY, USA.
- [C.2] **Xuhai Xu**, Alexandru Dancu, Pattie Maes, and Suranga Nanayakkara. 2018. Hand Range Interface: Information Always at Hand with A Body-centric Mid-air Input Surface. In *Proceedings of the 20th International Conference on Human-Computer Interaction with Mobile Devices and Services* (MobileHCI '18). ACM, New York, NY, USA.
- [C.1] Misha Sra, **Xuhai Xu**, Aske Mottelson, and Pattie Maes. 2018. VMotion: Designing a Seamless Walking Experience in VR. In *Proceedings of the 2018 Designing Interactive Systems Conference* (DIS'18). ACM, New York, NY, USA.

POSTER/WORKSHOP PAPER

- [P.2] Liang He, Ruolin Wang, **Xuhai Xu**. 2020. PneuFetch: Supporting Blind and Visually Impaired People to Fetch Nearby Object via Light Haptic Cues. In *Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems* (CHI '20). ACM, New York, NY, USA.
- [P.1] Misha Sra, **Xuhai Xu**, Pattie Maes. 2017. GalVR: a novel collaboration interface using GVS. In *Proceedings of the 23rd ACM Symposium on Virtual Reality Software and Technology* (VRST '17). ACM, New York, NY, USA.

AWARDS & HONORS

- Best Paper Honorable Mentioned Award (CHI 2020) 2020
- Best Paper Honorable Mentioned Award (CHI 2018) 2018
- Outstanding Undergraduate Awards, Tsinghua University 2018
- Annual Person, Dept. of Industrial Engineering 2018
- XieXin Scholarship, Tsinghua University 2018

- Outstanding Winner of 35th Challenge Cup, Tsinghua University (Group Leader) 2017
- GaoTong Scholarship, Tsinghua University 2017
- DongshiDongfang Scholarship, Tsinghua University 2016
- Changhong Scholarship, Tsinghua University 2015

ACADEMIC SERVICE

ASSOCIATE CHAIR

- CHI 2020 Late Breaking Work

PROGRAM COMMITTEE MEMBER

- WWW 2021 - Web & Society
- WWW 2020 - Health on the Web
- IUI 2020 Posters and Demos
- Ubicomp 2019 Workshop - AppLens

REVIEWER

- CHI 2019, 2020, UIST 2020
- IMWUT since 2018 Nov, ACM HEALTH 2020
- IUI 2019, IDC 2020, MobileHCI 2020, DIS 2020, EICS PACM 2020,

RESEARCH EXPERIENCE

UW, MAKE4ALL PROF. ANIND DEY & PROF. JENNIFER MANKOFF RESEARCH ASSISTANT	SEPT 2018 - PRESENT SEATTLE, WA
MIT, MEDIA LAB, FLUID INTERFACES PROF. PATTIE MAES VISITING STUDENT	JUN 2017 - DEC 2017 BOSTON, MA
CMU, ARTICULAB PROF. JUSTINE CASSELL VISITING STUDENT	JUN 2016 - SEPT 2016, JAN 2017 - MAR 2017 PITTSBURGH, PA
TSINGHUA, HCI GROUP PROF. YUANCHUN SHI RESEARCH ASSISTANT	FEB 2016 - SEPT 2018 BEIJING, CHINA
TSINGHUA, INSTITUTE OF HUMAN FACTORS PROF. PEI-LUEN RAU RESEARCH ASSISTANT	SEPT 2017 - JUNE 2018 BEIJING, CHINA

PROFESSIONAL EXPERIENCE

SAMSUNG RESEARCH AMERICA JILONG K., EBRAHIM N., KOROSH V. RESEARCH INTERN	JUNE 2020 - SEPT 2020 (REMOTE) MOUNTAIN VIEW, CA
MICROSOFT RESEARCH SUSAN DUMAIS, AHMED H. AWADALLAH RESEARCH INTERN	JUNE 2019 - SEPT 2019 REDMOND, WA
JD.COM INC. DR. JIN GUO RESEARCH INTERN	MAY 2018 - JULY 2018 BEIJING, CHINA
MOBVOI INC. DR. QIANG LI RESEARCH INTERN	JAN 2016 - MAR 2016 BEIJING, CHINA
TSINGHUA UNIVERSITY PROF. LI ZHEN TEACHING ASSISTANT	SEPT 2015 - JAN 2016 BEIJING, CHINA

SELECTED TALK

Understanding User Behavior For Document Recommendation

WWW 2020

(REMOTE) TAIPEI, CHINA TAIWAN, 2020 MAY

Leveraging Routine Behavior and Contextually-Filtered Features for Depression Detection

UBICOMP 2019

LONDON, UK, 2019 SEPT

HCI: Combination between Academia and Industry in the Era of AI

CAMPUS TALK AT TSINGHUA UNIVERSITY

BEIJING, CHINA, 2018 DEC

Hand Range Interface - Information always at hand

MOBILEHCI 2018

BARCELONA, SPAIN, 2018 SEPT

Breath VR - Provide Novel Interaction Experience in VR

CHI 2018

MONTREAL, CANADA, 2018 APR

STUDENT MENTORED

Yanzhang Li · UW GIX-Tsinghua Master Student

May 2020 - Present

Travis Yuan · Tsinghua Graduate Student

May 2020 - Present

Wenjun Chen · UW Graduate Student

Jan 2020 - Present

Tim Li · UW Undergraduate Student

Oct 2019 - Present

Jacqueline Li · UW Undergraduate Student

Oct 2019 - Mar 2020

Haitian Shi · Tsinghua Master Student

May 2019 - Dec 2019

David Dai · UW GIX Master Student

Oct 2018 - Feb 2019