

# Mike A. Merrill

PHD STUDENT · PAUL G. ALLEN SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

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## Education

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### University of Washington

PHD COMPUTER SCIENCE

- Advisor: Tim Althoff

Seattle, WA

September 2019 - present

### Cornell University

BS INFORMATION SCIENCE

- Magna Cum Laude
- Undergrad Research Advisor: Tanzeem Choudhury

Ithaca, NY

August 2013 - May 2017

## Other Research Experience

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2016-2019 **Data Scientist**, HealthRhythms

2015-2017 **Undergraduate Research Assistant**, Cornell University, Advised by Tanzeem Choudhury

2016 **Undergraduate Research Assistant**, Carnegie Mellon University, Advised by Anind Dey

## Publications

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### CONFERENCE AND JOURNAL PAPERS

- Ge Zhang, **Mike A. Merrill**, Yang Liu, Jeffrey Heer, and Tim Althoff. Coral: Code representation learning with weakly-supervised transformers for analyzing data analysis. In *EPJ Data Science*, 2022
- **Mike A. Merrill**, Ge Zhang, and Tim Althoff. Multiverse: Mining collective data science knowledge from code on the web to suggest alternative analysis approaches. *KDD*, 2021
- Dror Ben-Zeev, Rachel Brian, Rui Wang, Weichen Wang, Andrew T. Campbell, Min S. H. Aung, **Michael Merrill**, Vincent W. S. Tseng, Tanzeem Choudhury, Marta Hauser, John M. Kane, and Emily A. Scherer. Cross-Check: Integrating self-report, behavioral sensing, and smartphone use to identify digital indicators of psychotic relapse. *Psychiatric Rehabilitation Journal*, 2017
- Rui Wang, Min S. H. Aung, Saeed Abdullah, Rachel Brian, Andrew T. Campbell, Tanzeem Choudhury, Marta Hauser, John Kane, **Michael Merrill**, Emily A. Scherer, Vincent W. S. Tseng, and Dror Ben-Zeev. CrossCheck: toward passive sensing and detection of mental health changes in people with schizophrenia. In *UbiComp*. ACM, September 2016
- Vincent W. S. Tseng, **Michael Merrill**, Franziska Wittleder, Saeed Abdullah, Min Hane Aung, and Tanzeem Choudhury. Assessing mental health issues on college campuses: Preliminary findings from a pilot study. In *UbiComp workshop on Mental Health and Well-being: Sensing and Intervention*, 2016

### IN REVIEW

### PREPRINTS

- **Mike A. Merrill** and Tim Althoff. Transformer-based behavioral representation learning enables transfer learning for mobile sensing in small datasets. <https://arxiv.org/abs/2107.06097>, 2021
- Momin M. Malik, Afsaneh Doryab, **Michael Merrill**, Jürgen Pfeffer, and Anind K. Dey. Can Smartphone Co-locations Detect Friendship? It Depends How You Model It. <https://arxiv.org/abs/2008.02919>, 2020

### POSTERS

- Ellen Frank, **Michael Merrill**, Hane Aung, Claudio Soares, Sidney Kennedy, Mark Matthews, David Kupfer, Aleksandra Lalovic, and Tanzeem Choudhury. Sensing depression: Using smartphone sensors to predict changes in depression severity, 2017
- Ellen Frank, **Michael Merrill**, Hane Aung, Claudio Soares, Sidney Kennedy, Mark Matthews, David Kupfer, Aleksandra Lalovic, and Tanzeem Choudhury. Continuous behavioral data as a potential depression biomarker, 2016

## Awards, Fellowships, & Grants

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2019	<b>Corin Anderson Endowed Fellowship</b> , UW CSE	\$ 20,000
2017	<b>Excellence in Research</b> , Cornell University Department of Information Science	
2014	<b>Big Red Idea</b> , CU Tonight	\$ 1,000
	<b>Pitch Festival Finalist Travel Grant</b> , RECESS	\$ 1,000

## Presentations

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Summer 2021	<b>KDD 2021 “MULTIVERSE”</b> , Remote
	<b>Evidation Health “Transfer Learning for Behavioral Data”</b> , Remote
Spring 2018	<b>MassChallenge HealthTech Finale</b> , Boston, MA
Fall 2017	<b>Results International “AI and Analytics in Healthcare” Panel</b> , New York, NY

## Teaching Experience

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Fall 2021	<b>CSE 481DS: Data Science Capstone</b> , TA
Fall 2020	<b>CSE 481DS: Data Science Capstone</b> , Head TA

## Mentorship

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2019-2020	<b>Ge Zhang</b> , Peking University, now at UMich iSchool
2019-2020	<b>Jacopo Mocellin</b> , University of Trento

## Outreach & Professional Development

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### SERVICE AND OUTREACH

2021	<b>CSE Graduate Admissions</b> , Data Science Area Chair
2020	<b>Graduate Liaison</b> , Faculty Recruitment Committee
	<b>UW CSE Pre-Application Review Service</b> , Reader
	<b>CSE Prospective Students Committee</b> , Grad Student Panel Coordinator