

Mike A. Merrill

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

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Education

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

2022 **ML Research Intern**, Apple, Health AI

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

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

Presentations

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

Teaching Experience

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| Fall 2021 | CSE 481DS: Data Science Capstone , TA |
| Fall 2020 | CSE 481DS: Data Science Capstone , Head TA |

Mentorship

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| 2019-2020 | Ge Zhang , Peking University, now at UMich iSchool |
| 2019-2020 | Jacopo Mocellin , University of Trento |

Outreach & Professional Development

SERVICE AND OUTREACH

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