TIM ALTHOFF

Paul G. Allen School of Computer Science & Engineering

CURRICULUM VITAE

althoff@cs.washington.edu

	University of Washington Box 352355, 3800 E Stevens Way NE Seattle, WA 98195, USA	http://althoff.cs.uw.edu +1 (650)-485-0758
Research	Data science, social network analysis, natural language processing	g, and applications to well-being
Professional experience	, , , , ,	
	Stanford University, Stanford, CA, USA Research Assistant with Jure Leskovec, Dan Jurafsky, Dan McFarlar	9/2013 – 9/2018 nd
	Microsoft Research, Redmond, WA, USA Research Intern with Eric Horvitz, Ryen White	6/2016 – 9/2016
	Google Research, Mountain View, CA, USA Research Intern with Kevin Murphy, Xin Luna Dong, Evgeniy Gabr	6/2014 – 9/2014 ilovich
	Google Research, Mountain View, CA, USA Research Intern with David Ross	5/2013 – 8/2013
	Google Research, Mountain View, CA, USA Research Intern with David Ross, Douglas Eck, Hrishikesh Aradhye	5/2012 – 8/2012 e
	University of California, Berkeley, Berkeley, CA, USA <i>Visiting Student Researcher</i> with Trevor Darrell	8/2011 – 5/2012
	German Research Center for Artificial Intelligence, Kaiserslautern <i>Research Assistant</i> with Adrian Ulges, Damian Borth, Andreas Der	
	German Research Center for Artificial Intelligence, Kaiserslautern <i>Research Assistant</i> with Adrian Ulges, Thomas Breuel	, Germany 5/2009 – 10/2009
Education	Stanford University, Stanford, CA, USA Ph.D. in Computer Science. Thesis: Data Science for Human Well-being (Winner of SIGKDD Dissertation Award) Dissertation committee: Jure Leskovec, Eric Horvitz, Dan Jurafsky, Scott Delp, Trevor Hastie	
	M.S. in Computer Science (8/2015)	
	University of Kaiserslautern, Kaiserslautern, Germany M.S. in Computer Science. Minor in Cognitive Psychology	10/2007 – 7/2013
	Thesis: Analysis and Forecasting of Trending Topics in Online Media (won University-wide Award B.S. in Computer Science. Minor in Mathematics Thesis: Scalable Clustering for Hierarchical Content-based Browsing of Large-scale Image Collection	
Publications	Articles in peer-reviewed journals	
	[55] Human-Al Collaboration Enables More Empathic Conversations in Text-based Peer-to-Peer N tal Health Support Ashish Sharma, Inna Lin, Adam Miner, David Atkins, Tim Althoff	
	Nature Machine Intelligence — 2023 [54] Leveraging Mobile Technology For Public Health Promotion: A Multidisciplinary Perspective Jennifer L. Hicks, Melissa A. Boswell, Tim Althoff, Alia J. Crum, James A. Landay, Joy P. Ku, Paula M.L. Moya, Elizabeth L. Murnane, Michael P. Snyder, Abby C. King, Scott L. Delp Annual Review of Public Health — 2023	
	[53] Mapping User Engagement in Digital Psychotherapy: An Integ James M Zech, Morgan Johnson, Michael D Pullman, Thon Munson Nicole Fridling Boris Litvin Jerilyn Wu, Patricia A A	nas D Hull, Tim Althoff, Sean A

Munson, Nicole Fridling, Boris Litvin, Jerilyn Wu, Patricia A Areán

JMIR Formative Research — 2023

Tim Althoff 2/11

[52] Disparate Impacts on Online Information Access during the COVID-19 Pandemic Jina Suh, Eric Horvitz, Ryen W. White, Tim Althoff Nature Communications — 2022

[51] Estimating the Burden of Influenza on Daily Activity at Population Scale Using Commercial Wearable Sensors

Aziz Mezlini, Allison Shapiro, Eric J. Daza, Eamon Caddigan, Ernesto Ramirez, **Tim Althoff,** Luca Foschini

JAMA Network Open — 2022

[50] Large-scale diet tracking data reveal disparate associations between food environment and diet Tim Althoff, Hamed Nilforoshan, Jenna Hua, Jure Leskovec Nature Communications — 2022

[49] CORAL: COde RepresentAtion Learning with Weakly-Supervised Transformers for Analyzing Data Analysis

Ge Zhang, Mike Merrill, Yang Liu, Jeff Heer, **Tim Althoff** *EPJ Data Science* — 2022

[48] GLOBEM: Cross-Dataset Generalization of Longitudinal Human Behavior Modeling Xuhai Xu, Xin Liu, Han Zhang, Weichen Wang, Subgiya Nepal, Kevin S. Kuehn, Jeremy Huckins, Margaret E. Morris, Paula S. Nurius, Eve A. Riskin, Shwetak Patel, **Tim Althoff**, Andrew Campell, Anind K. Dey, Jennifer C. Mankoff

IMWUT / UbiComp — Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, 2022

[47] A computational approach to measure the linguistic characteristics of psychotherapy timing, responsiveness, and consistency

Adam S Miner, Scott L Fleming, Albert Haque, Jason Fries, **Tim Althoff,** Denise Wilfley, W Stuart Agras, Arnold Milstein, Jeff Hancock, Steven M Ash, Shannon W Stirman, Bruce A Arnow, Nigam Shah

npj Mental Health Research -2022

[46] Same data, different conclusions: Radical dispersion in empirical results when independent analysts operationalize and test the same hypothesis

Martin Schweinsberg, ..., **Tim Althoff**, ..., Eric Luis Uhlmann (179 authors total)

Organizational Behavior and Human Decision Processes — 2021

[45] Daily, weekly, seasonal, and menstrual cycles in female mood, behavior, and vital signs Emma Pierson, **Tim Althoff**, Daniel Thomas, Paula Hillard, Jure Leskovec *Nature Human Behavior* — 2021

[44] Characterizing COVID-19 and Influenza Illnesses in the Real World via Person-Generated Health Data

Nikki Marinsek, Allison Shapiro, Ieuan Clay, Ben Bradshaw, Ernesto Ramirez, Jae Min, Andrew Trister, Yuedong Wang, **Tim Althoff**, Luca Foschini **Cell Patterns** — 2021

[43] Efficient and Explainable Risk Assessments for Imminent Dementia: Insights from an Aging Cohort Study

Nicasia Beebe-Wang*, Alexandra Okeson*, **Tim Althoff**§, Su-In Lee§ (*§ equal contribution) *IEEE Journal of Biomedical and Health Informatics* — 2021

[42] Assessing the relationship between routine and schizophrenia symptoms with passively sensed measures of behavioral stability

Joy He-Yueya, Benjamin Buck, Andrew Campbell, Tanzeem Choudhury, John M Kane, Dror Ben-Zeev, **Tim Althoff**

NPJ Schizophrenia — 2020

[41] Leveraging Routine Behavior and Contextually-Filtered Features for Depression Detection among College Students

Xuhai Xu, Prerna Chikersal, Afsaneh Doryab, Daniella Villalba, Janine M. Dutcher, Michael Tumminia, **Tim Althoff**, Sheldon Cohen, Kasey Creswell, David Creswell, Jennifer Mankoff, Anind K. Dev

IMWUT / UbiComp — Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, 2019

Tim Althoff 3/11

[40] Best Practices for Analyzing Large-scale Health Data from Wearables and Smartphone Apps Jennifer L. Hicks, **Tim Althoff**, Rok Sosic, Peter Kuhar, Bojan Bostjancic, Abby C. King, Jure Leskovec, Scott L. Delp

NPJ Digital Medicine — 2019

[39] Psychomotor Function Measured via Online Activity Predicts Motor Vehicle Fatality Risk **Tim Althoff**, Eric Horvitz, Ryen W. White **NPJ Digital Medicine** — 2018

[38] Large-scale Physical Activity Data Reveal Worldwide Activity Inequality Tim Althoff, Rok Sosic, Jennifer L. Hicks, Abby C. King, Scott L. Delp, Jure Leskovec Nature — 2017

Top 0.0002% Altmetric Attention Score of 8M articles; Top 0.002% among Nature articles

[37] Population-scale Pervasive Health

Tim Althoff

IEEE Pervasive Computing — 2017

[36] Influence of Pokémon Go on Physical Activity: Study and Implications

Tim Althoff, Ryen W. White, Eric Horvitz

JMIR — Journal of Medical Internet Research (JMIR), 2016

Top 0.001% Altmetric Attention Score of 8M articles

[35] Natural Language Processing for Mental Health: Large Scale Discourse Analysis of Counseling Conversations

Tim Althoff*, Kevin Clark*, Jure Leskovec (* equal contribution)

TACL — Transactions of the Association for Computational Linguistics (TACL), 2016

International Medical Informatics Association Best Paper Award for best paper on clinical natural language processing in 2016

Articles in peer-reviewed conference proceedings

[34] Homekit2020: A Benchmark for Time Series Classification on a Large Mobile Sensing Dataset with Laboratory Tested Ground Truth of Influenza Infections

Mike A Merrill, Esteban Safranchik, Arinbjörn Kolbeinsson, Piyusha Gade, Ernesto Ramirez, Ludwig Schmidt, Luca Foschini, **Tim Althoff**

CHIL — Conference on Health, Inference, and Learning (accepted, 2023)

[33] Self-Supervised Pretraining and Transfer Learning Enable Flu and COVID-19 Predictions in Small Mobile Sensing Datasets

Mike Merrill, **Tim Althoff**

Yulia Tsvetkov

CHIL — Conference on Health, Inference, and Learning (accepted, 2023)

[32] Understanding and Supporting Debugging Workflows in Multiverse Analysis Ken Gu, Eunice Jun, **Tim Althoff**

CHI — ACM CHI Conference on Human Factors in Computing Systems, 2023

[31] GLOBEM: Multi-Year Datasets for Longitudinal Human Behavior Modeling Generalization Xuhai Xu, Han Zhang, Yasaman Sefidgar, Xin Liu, Woosuk Seo, Jennifer Brown, Yiyi Ren, Kevin Kuehn, Mike Merrill, Paula Nurius, Anne Browning, Shwetak Patel, **Tim Althoff,** Magaret E. Morris, Eve Riskin, Jennifer Mankoff, Anind K. Dey

NeurIPS — 36th Conference on Neural Information Processing Systems, 2022

[30] Gendered Mental Health Stigma in Masked Language Models Inna Wanyin Lin*, Lucille Njoo*, Anjalie Field, Ashish Sharma, Katharina Reinecke, **Tim Althoff**,

EMNLP — Conference on Empirical Methods in Natural Language Processing, 2022

[29] What Makes Online Communities 'Better'? Measuring Values, Consensus, and Conflict across Thousands of Subreddits

Galen Weld, Amy Zhang, Tim Althoff

ICWSM — 16th International AAAI Conference on Weblogs and Social Media, 2022

[28] Adjusting for Confounders with Text: Challenges and an Empirical Evaluation Framework for Causal Inference

Galen Weld*, Peter West*, Maria Glenski, David Arbour, Ryen Rossi, **Tim Althoff ICWSM** — 16th International AAAI Conference on Weblogs and Social Media, 2022

Tim Althoff 4/11

[27] Towards Facilitating Empathic Conversations in Online Mental Health Support: A Reinforcement Learning Approach (Extended Abstract)

Ashish Sharma, Inna Lin, Adam Miner, David Atkins, Tim Althoff

IJCAI — 31st Intl. Joint C. on Artificial Intelligence – Sister Conference Best Paper Track, 2022

[26] MULTIVERSE: Mining Collective Data Science Knowledge from Code on the Web to Suggest Alternative Data Analysis Approaches Mike Merrill, Ge Zhang, **Tim Althoff**

KDD — 27th International ACM Conference on Knowledge Discovery and Data Mining, 2021

[25] Political Bias and Factualness in News Sharing across more than 100,000 Online Communities Galen Weld, Maria Glenski, **Tim Althoff**

ICWSM — 15th International AAAI Conference on Weblogs and Social Media, 2021

Best Paper Award for Outstanding Analysis Paper

[24] The Effect of Moderation on Online Mental Health Conversations

David Wadden, Tal August, Qisheng Li, **Tim Althoff**

ICWSM — 15th International AAAI Conference on Weblogs and Social Media, 2021

P Best Paper Award for Outstanding Study Design

[23] Towards Facilitating Empathic Conversations in Online Mental Health Support: A Reinforcement Learning Approach

Ashish Sharma, Inna Lin, Adam Miner, David Atkins, **Tim Althoff**

WWW/WebConf — 30th International World Wide Web Conference, 2021

P Best Paper Award (single award across all 1736 submissions)

[22] Online Mobile App Usage as an Indicator of Sleep Behavior and Job Performance Chunjong Park, Morelle Arian, Xin Liu, Leon Sasson, Jeffrey Khan, Shwetak Patel, Alex Mariakakis, **Tim Althoff**

WWW/WebConf — 30th International World Wide Web Conference, 2021

[21] Population-Scale Study of Human Needs During the COVID-19 Pandemic:

Analysis and Implications

Jina Suh, Eric Horvitz, Ryen White, Tim Althoff

WSDM — 14th ACM International Conference on Web Search and Data Mining, 2021

[20] A Computational Approach to Understanding Empathy Expressed in Text-Based Mental Health Support

Ashish Sharma, Adam Miner, David Atkins, Tim Althoff

EMNLP — Conference on Empirical Methods in Natural Language Processing, 2020

[19] Boba: Authoring and Visualizing Multiverse Analyses

Yang Liu, Alex Kale, Tim Althoff, Jeff Heer

VAST — IEEE Visual Analytics Science and Technology (VAST), 2020

[18] Data-Driven Implications for Translating Evidence-Based Psychotherapies into Technology-Delivered Interventions

Jessica Schroeder, Jina Suh, Chelsey Wilks, Mary Czerwinski, Sean Munson, James Fogarty, Tim Althoff

PH — EAI PervasiveHealth, 2020

[17] Engagement Patterns of Peer-to-Peer Interactions on Mental Health Platforms:

A Case-Study of TalkLife

Ashish Sharma, Monojit Choudhury, Tim Althoff, Amit Sharma

ICWSM — 14th International AAAI Conference on Weblogs and Social Media, 2020

[16] Paths Explored, Paths Omitted, Paths Obscured: Decision Points & Selective Reporting in Endto-End Data Analysis

Yang Liu, **Tim Althoff**, Jeff Heer

CHI — ACM CHI Conference on Human Factors in Computing Systems, 2020

[15] Passively-sensed Behavioral Correlates of Discrimination Events in College Students Yasaman S. Sefidgar, Woosuk Seo, Kevin S. Kuehn, **Tim Althoff**, Anne Browning, Eve Riskin, Paula S. Nurius, Anind K. Dey, Jennifer Mankoff

CSCW — 22nd Conference on Computer-Supported Cooperative Work & Social Computing, 2019

Tim Althoff 5/11

[14] Goal-setting And Achievement In Activity Tracking Apps: A Case Study Of MyFitnessPal Mitchell Gordon, **Tim Althoff**, Jure Leskovec

WWW/WebConf - 28th International World Wide Web Conference, 2019

[13] Modeling Interdependent and Periodic Real-World Action Sequences Takeshi Kurashima, **Tim Althoff**, Jure Leskovec

WWW — 27th International World Wide Web Conference, 2018

[12] Modeling Individual Cyclic Variation in Human Behavior

Emma Pierson, **Tim Althoff**, Jure Leskovec

WWW — 27th International World Wide Web Conference, 2018

[11] I'll be back: On the Multiple Lives of Users of a Mobile Activity Tracking Application Zhiyuan Lin, **Tim Althoff**, Jure Leskovec

WWW — 27th International World Wide Web Conference, 2018

[10] Harnessing the Web for Population-Scale Physiological Sensing: A Case Study of Sleep and Performance

Tim Althoff, Ryen W. White, Eric Horvitz, Jamie Zeitzer

WWW — 26th International World Wide Web Conference, 2017

[9] How Gamification Affects Physical Activity: Large-scale Analysis of Walking Challenges in a Mobile Application

Ali Shameli, Tim Althoff, Amin Saberi, Jure Leskovec

WWW — 26th International World Wide Web Conference, 2017

[8] Online Actions with Offline Impact: How Online Social Networks Influence Online and Offline User Behavior

Tim Althoff, Pranav Jindal, Jure Leskovec

WSDM — 10th International ACM Conference on Web Search and Data Mining, 2017

[7] TimeMachine: Timeline Generation for Knowledge-Base Entities

Tim Althoff, Xin Luna Dong, Kevin Murphy, Safa Alai, Van Dang, Wei Zhang

KDD — 21st International ACM Conference on Knowledge Discovery and Data Mining, 2015

[6] Donor Retention in Online Crowdfunding Communities: A Case Study of DonorsChoose.org **Tim Althoff**, Jure Leskovec

WWW — 24th International World Wide Web Conference, 2015

[5] How to Ask for a Favor: A Case Study on the Success of Altruistic Requests Tim Althoff, Cristian Danescu-Niculescu-Mizil, Dan Jurafsky ICWSM — 8th International AAAI Conference on Weblogs and Social Media, 2014

[4] Analysis and Forecasting of Trending Topics in Online Media Streams

Tim Althoff, Damian Borth, Jörn Hees, Andreas Dengel

MM — 21st ACM International Conference on Multimedia, 2013

[3] Detection Bank: An Object Detection Based Video Representation for Multimedia Event Recognition **Tim Althoff**, Hyun Oh Song, Trevor Darrell

MM — 20th ACM International Conference on Multimedia, 2012

[2] Sparselet Models for Efficient Multiclass Object Detection Hyun Oh Song, Stefan Zickler, Tim Althoff, Ross Girshick, Mario Fritz, Christopher Geyer, Pedro Felzenszwalb, Trevor Darrell

ECCV — 12th European Conference on Computer Vision, 2012

[1] Balanced Clustering for Content-based Image Browsing

Tim Althoff, Adrian Ulges, Andreas Dengel

GI — Informatiktage 2011, Gesellschaft für Informatik, 2011

Articles in peer-reviewed workshop proceedings

[W4] Grand Challenges for Personal Informatics and AI

Lena Mamykina, Daniel A. Epstein, Predrag Klasnja, Donna Sprujt-Metz, Jochen Meyer, Mary Czerwinski, **Tim Althoff,** Eun Kyoung Choe, Munmun De Choudhury, Brian Lim

CHI — CHI Conference on Human Factors in Computing Systems Extended Abstracts, 2022

Tim Althoff 6/11

[W3] Leveraging Community and Author Context to Explain the Performance and Bias of Text-Based Deception Detection Models

Galen Weld, Ellyn Ayton, Tim Althoff, Maria Glenski

NAACL NLP4IF — NAACL WS on NLP4IF: Censorship, Disinformation, and Propaganda, 2021

Best Paper Award

[W2] Learning Individualized Cardiovascular Responses from Large-scale Wearable Sensors Data Haraldur T. Hallgrímsson, Filip Jankovic, **Tim Althoff**, Luca Foschini NeurIPS ML4H — NeurIPS Workshop on Machine Learning for Health, 2018

[W1] Quantifying Dose Response Relationships Between Physical Activity and Health Using Propensity Scores

Tim Althoff, Rok Sosic, Jennifer L. Hicks, Abby C. King, Scott L. Delp, Jure Leskovec **NeurIPS ML4H** — NeurIPS Workshop on Machine Learning for Health, 2016

Articles under review

- [R7] Cognitive Reframing of Negative Thoughts through Human-Language Model Interaction Ashish Sharma, Kevin Rushton, Inna Lin, David Wadden, Khendra Lucas, Adam Miner, Theresa Nguyen, **Tim Althoff**
- [R6] Scaling Expert Language Models with Unsupervised Domain Discovery Suchin Gururangan*, Margaret Li*, Mike Lewis, **Tim Althoff**, Noah A. Smith, Luke Zettlemoyer
- [R5] Branch-Train-Merge: Embarrassingly Parallel Training of Expert Language Models Margaret Li*, Suchin Gururangan*, Tim Dettmers, Mike Lewis, **Tim Althoff,** Noah A Smith, Luke Zettlemoyer
- [R4] Towards Tailoring Just-in-time Adaptive Intervention Systems for Workplace Stress Reduction Jina Suh, Esther Howe, Robert Lewis, Javier Hernandez, Koustuv Saha, Tim Althoff, Mary Czerwinski
- [R3] "I will just have to keep driving": A Mixed-methods Investigation of Thai Motorcycle Rideshare Driver Responses to Poor Air Quality Nussara Tieanklin*, Joseph Breda*, **Tim Althoff**, Kurtis Heimerl (* equal contribution)
- [R2] Natural Language Processing for Mental Health Interventions A Systematic Review Matteo Malgaroli, Thomas Hull, James Zech, **Tim Althoff**
- [R1] Making Online Communities 'Better': A Taxonomy of Community Values on Reddit Galen Weld, Amy Zhang, **Tim Althoff**

Patents

- [P4] Sleep monitoring from implicitly collected computer interactions (2020) **Tim Althoff**, Eric Horvitz, Ryen White
- [P3] Providing User-Interactive Graphical Timelines (2014) **Tim Althoff**, Xin Luna Dong, Kevin Murphy, Safa Alai, Van Dang, Wei Zhang, Evgeniy Gabrilovich
- [P2] Adaptive Music and Video Recommendations (2013) **Tim Althoff**, David Ross, Huazhong Ning, Mohamad Tarifi, Wes Cheng
- [P1] Automatic Music Video Generation Based on Structured Information (2012) **Tim Althoff**, David Ross, Douglas Eck, Hrishikesh Aradhye

Awards NSF CAREER Award

10/2022

Most Highly Rated Instructors in the Allen School 2020-2021

7/2021

Best Paper Award for Outstanding Analysis Paper – ICWSM

6/2021

For Political Bias and Factualness in News Sharing across more than 100,000 Online Communities by ICWSM.

P Best Paper Award for Outstanding Study Design – ICWSM

6/2021

For The Effect of Moderation on Online Mental Health Conversations by ICWSM.

Y Best Paper Award – NAACL NLP4IF

6/2021

For Leveraging Community and Author Context to Explain the Performance and Bias of Text-Based Deception Detection Models by NAACL WS on NLP4IF.

7/11 Tim Althoff

₹ Best Paper Award – WWW/WebConf	4/2021
For Towards Facilitating Empathic Conversations in Online Mental Health Support: A Reir Learning Approach by WWW/WebConf. Single award across all 1736 submissions.	nforcement
Nomination for 2020 Marsha L. Landolt Distinguished Graduate Mentor Award University-wide award recognizing excellent faculty mentors	1/2020
2019 SIGKDD Doctoral Dissertation Award Winner ACM SIGKDD For Data Science for Human Well-being	8/2019
Recognizing excellent research in the field of data science, data mining and knowledge d	•
Kavli Fellow Kavli Frontiers of Science at National Academy of Sciences	4/2019
eScience Fellow University of Washington	3/2019
Altmetric Top 100 Article 2017	12/2017
For Large-scale Physical Activity Data Reveal Worldwide Activity Inequality Among top 100 public attention scores of over 2 million tracked research outputs in 2017	7
▼ Best Paper Award – Clinical Natural Language Processing 2016	8/2017
For Natural Language Processing for Mental Health: Large Scale Discourse Analysis of Conversations by International Medical Informatics Association	
One of five selected among all research papers published in 2016	
#1 most tweeted JMIR article 2016; #5 most tweeted JMIR article all time For Influence of Pokémon Go on Physical Activity: Study and Implications by Journal of Internet Research (JMIR)	1/2017 of Medical
Fellow Digital Ecologies Research Partnership	5/2014
(Sole) PI: National Science Foundation (NSF-IIS CAREER #2142794)	10/2022
CAREER: Realizing the Potential of Behavioral Data Science for Population Health. Total funded amount: \$599,173 (2022–2027).	
Key Personnel: National Science Foundation (NSF 49100421C0037)	9/2022
Analysis and Response for Trust Tool (ARTT): Expert-Informed Resources for Individua	Is and
Online Communities to Address Vaccine Hesitancy and Misinformation. Co-Pls: Connie Moon Sehat, Franziska Roesner, Amy X. Zhang	
Total funded amount: \$749,000; Personal share: \$297,000 (2021–2023).	
(Sole) PI: Google, unrestricted gift (\$30,000)	10/2021
(Sole) PI: Garvey Institute for Brain Health Solutions Innovation Grant. Improving conversational best practices in online mental health support. Total funded amount: \$100,000 (2021-2022).	6/2021
(Sole) PI: Microsoft Research AI for Accessibility Grant.	5/2021
Supporting Empathy Expression in Long-form Conversation.	
Total funded amount: \$205,000 (2021-2022).	4/2021
(Sole) PI: Office of Naval Research (ONR #N00014-21-1-2154) Quantifying Effective Scalable Governance across Thousands of Online Communities.	4/2021
Total funded amount: \$399,501 (2021–2023).	
Co-PI: National Institute of Mental Health (NIH #R01MH125179)	1/2021
Enhancing Engagement with Digital Mental Health Care.	
Total funded amount: \$3,161,673; Personal share: \$695,567 (2021–2024). Co-PI: National Science Foundation (NSF-CNS EAGER #2025022)	8/2020
Partnering with Grab for Cross-ASEAN Regional Urban Insights.	0/2020
Total funded amount: \$250,000 (2020–2022).	
(Sole) PI: Microsoft Research AI for Accessibility Grant.	5/2020
Human-AI Collaboration to Encourage Empathy in Text-Based Mental Health Support. Total funded amount: \$200,000 (2020-2021).	
(Sole) PI: Bill & Melinda Gates Foundation (INV-004841)	3/2020
Data Science for Wearables and Public Health.	3,2020
Total funded amount: \$600,000 (2020-2022).	
(Sole) PI: Allen Institute for Artificial Intelligence (Al2), unrestricted gift (\$100,000)	3/2020
(Sole) PI: Outreach, unrestricted gift (\$100,000)	3/2020

Grants & gifts

Tim Althoff 8/11

	(Sole) PI: Pacific Northwest National Laboratory (PNNL) (\$60,000) Co-PI: National Science Foundation (NSF-IIS Large #1901386) Analysis Engineering for Robust End-to-End Data Science. Total funded amount: \$3,000,000; Personal share: \$786,096 (2019–2024). (Sole) PI: Supportiv, unrestricted gift (\$50,000) (Sole) PI: Adobe Data Science Research Award (\$50,000; 5/72 proposals funded) (Sole) PI: Intel Research - Academic Cluster Computing Grant	1/2020 9/2019 8/2019 3/2019 2/2019
Fellowships	Stanford Graduate Fellowship, SAP Fellow (tuition + US\$41,700 p.a.) (awarded to top 3% of Stanford Ph.D. students) Stanford School of Engineering Fellowship (tuition + US\$39,400 p.a.) Fulbright Scholarship (US\$21,500; declined)	9/2015 - 8/2018 9/2013 - 6/2014 8/2011 - 5/2012
	UC Berkeley Scholarship from German Academic Exchange Service (€26,775) German National Merit Foundation Scholarship (awarded to top-ranked 0.25% of students nationwide; i.a. €3,600 p.a.)	8/2011 – 5/2012 7/2009 – 7/2013
Advising & mentoring	Vinayak Gupta, Postdoc, U Washington Xinyi Zhou, Postdoc, U Washington (co-advised w. Amy Zhang) Ken Gu, Ph.D. student, U Washington Margaret Li, Ph.D. student, U Washington (co-advised w. Luke Zettlemoyer) Inna Lin, Ph.D. student (previously summer intern), U Washington Ashish Sharma, Ph.D. student, U Washington Mike Merrill, Ph.D. student, U Washington Galen Weld, Ph.D. student, U Washington Jina Suh, Ph.D. student, U Washington Jina Suh, Ph.D. student, U Washington (co-advised with James Fogarty) Jacopo Mocellin, B.S. student, University of Trento (undergraduate intern) Ethan Hsu, M.S. student, Pennsylvania State University (intern) Melih Yilmaz, Ph.D. student, U Washington (Ph.D. rotation) Joy He-Yueya, B.S. student, U Washington (undergraduate research) CRA Outstanding Undergraduate Researcher Award Ge Zhang, B.S. student, Peking University (undergraduate intern) Remy Deshayes, M.S. student, Ecole Polytechnique (summer intern) Peter West, Ph.D. student, U Washington (Ph.D. rotation) Prakhar Agarwal, M.S. student, U Washington (research assistant) Hamed Nilforoshan, B.S. student, Columbia University (undergraduate intern) Boris Ivanovic, M.S. student, Stanford University (senior project) Pranav Jindal, M.S. student, Stanford University (research assistant)	4/2023 – present 1/2023 – present 9/2021 – present 9/2020 – present 6/2020 – present 9/2019 – present 9/2019 – present 7/2019 – present 6/2019 – 12/2022 9/2021 – 1/2022 7/2021 – 1/2022 7/2021 – 1/2022 9/2020 – 1/2021 6/2019 – 12/2020 6/2019 – 9/2020 6/2019 – 9/2020 6/2019 – 6/2019 6/2017 – 6/2019 9/2016 – 6/2019 9/2015 – 6/2016
Teaching experience	Guest lecture, University of Washington Computing for Social Good (CSE580) Guest lecture, U. Washington Integrative Experience in Data Science (CSE491) Instructor, University of Washington Machine Learning for Big Data (CSE547) Instructor, University of Washington Data Science Capstone (CSE481DS) Guest lecture, U. Washington Integrative Experience in Data Science (CSE491) Instructor, University of Washington Machine Learning for Big Data (CSEP590) Instructor, University of Washington Data Science Capstone (CSE481DS) Guest lecture, U. Washington Integrative Experience in Data Science (CSE491) Guest lecture, University of Washington Computing for Social Good (CSE580) Guest lecture, Stanford Big Data Methods for Behavioral, Social and Population F- Co-Instructor, University of Washington Natural Language Processing Seminar (NI Instructor, University of Washington Data Science Capstone (CSE481DS) Instructor, University of Washington Machine Learning for Big Data (CSE547) Guest lecture, University of Washington Computing for Social Good (CSE599) Co-Instructor, University of Washington Big and Small Data in Health (CSE599H) Instructor, University of Washington Machine Learning for Big Data (CSE547)	Spring 2023 Spring 2023 Winter 2023 Fall 2022 Spring 2022 Spring 2022 Fall 2021 Spring 2021 Spring 2021 Spring 2021 Fall 2020 Fall 2020 Spring 2020 Spring 2020 Spring 2020

Tim Althoff 9/11

	Instructor, University of Washington Data Science for Human Well-being (CSE599H) W	oring 2019 inter 2018 6 & 3/2017 3/2017 12/2016 3/2016
Selected invited talks	Keynote, International Conference on Computational Social Science (IC2S2), Denmark ICLR, Workshop on Time Series Representation Learning for Health The Web Conference (WWW), Health Day, Austin, TX, USA Texas A&M, Data Science Seminar, College Station, TX, USA Northwestern University CBIT, IL, USA Al Innovator Series, Pacific Northwest National Laboratory, WA, USA NeurIPS Panel on NLP in Healthcare, 2022 Computer Science Department, U Michigan, Ann Arbor, MI, USA Association for Behavioral and Cognitive Therapies, Annual Convention 2022 Halicioglu Data Science Institute, UC San Diego, CA, USA EuroScience Open Forum, Leiden, Netherlands 2022 Al Keynote, LMU Munich, Germany 2022 National Academies of Sciences, Engineering, and Medicine Keynote, Social NLP Workshop © WebConf/WWW 2022 Computer Science Department, Cornell University, NY, USA Computer Science Department, University of Michigan, Ann Arbor, MI, USA NeurIPS Machine Learning for Mobile Health Information Science Department, Cornell University, Ithaca, NY, USA Digital Mental Health Workshop, San Francisco, WA, USA The Human Factors and Ergonomics Society: Panel on Ubiquitous User Monitoring Keynote at 2nd KDD Workshop on Offline and Online Evaluation of Interactive Systems KDD Dissertation Award 2019 Data Abuse Prevention Workshop, DARPA/ISAT, Arlington, VA, USA Schools of Computer Science and Information, University of Washington, Seattle, WA, US Computer Science Department, ETH Zurich, Zurich, CH Boston Children's Hospital, Harvard Medical School, Boston, MA, USA Interactive Computing Department, Columbia University, New York City, NY, USA Interactive Computing Department, Columbia University, New York City, NY, USA Computer Science Department, UC San Diego, San Diego, CA, USA Computer Science Department, UC Los Angeles, Los Angeles, CA, USA Computer Science Department, UC Los Angeles, Los Angeles, CA, USA Computer Science Department, UC Los Angeles, Los Angeles, CA, USA Computer Science Department, UC Los Angeles, Los Angeles, CA, USA Computer Science D	7/2023 5/2023 5/2023 5/2023 4/2023 3/2022 11/2022 11/2022 10/2022 4/2022 4/2022 4/2022 4/2022 4/2020 1/2020 1/2020 1/2020 10/2019 8/2019 8/2019 8/2019 8/2018 3/2018
Selected	Intelligent Systems Lab, University of Amsterdam, Netherlands GI Informatiktage 2011, Bonn, Germany Outstanding Reviewer Award — ACM Int'l Conference on Web-Search and Data Mining,	1/2013 3/2011

Selected community service

Outstanding Reviewer Award — ACM Int'l Conference on Web-Search and Data Mining, 2016 Co-organizer

Grand Challenges for Personal Informatics and AI, held at CHI, 2022 WWW/WebConf, Co-Chair for The Web of Health Special Track, 2021 Kavli Frontiers of Science, held at National Academy of Sciences, 2021

Tim Althoff 10/11

WWW/WebConf, Co-Chair for Health on the Web Track, 2020 Kavli Frontiers of Science, held at National Academy of Sciences, 2020 Workshop on Machine Learning for Health, held at NeurIPS, 2017 Workshop on Observational Studies Through Social Media, held at ICWSM, 2017

Advisory Panels

UNESCO, Fit For Life Global Associate Advisory Panel (GAAP), 2022

Centers for Disease Control and Prevention, Physical Activity Data Modernization Initiative, 2022

Editorial board member

Nature Scientific Data, 2018-present

(Senior) Program committee member

WWW - Intl. World Wide Web Conference, 2015-2020; Senior PC, 2021-2023

WSDM — ACM Intl. Conf. on Web Search and Data Mining, 2016–2018, Senior PC, 2020, 2023

KDD — ACM SIGKDD Conf. on Knowledge Discovery & Data Mining, 2015–2020, Senior PC, 2022

ICWSM — Intl. AAAI Conference on Web and Social Media, 2016–2018, Senior PC, 2021-2022

ACL — Annual Meeting of the Association for Computational Linguistics, Area Chair 2021

EMNLP — Intl. ACL Conference on Empirical Methods in Natural Language Processing, 2017–2018 MM — ACM Intl. Conference on Multimedia, 2014–2015

SocialNLP — Intl. Workshop on Natural Language Processing for Social Media, 2016–2017

EuroSymposium — European Symposium on Societal Challenges in Computational Social Science, 2017 HealthRecSys — Intl. Workshop on Health Recommender Systems at ACM RecSys, 2017

Iournal reviewer

Nature - Nature, 2021

CellRM — Cell Reports Medicine, 2021, 2022

NatureHB — Nature Human Behavior, 2019

ScienceAdv — Science Advances, 2019

DS — EPJ Data Science, 2018

BMJ — British Medical Journal, 2019

S − *Sleep*, 2020

PR — Psychotherapy Research, 2020

JMIR — Journal of Medical Internet Research (incl. Mental Health, Serious Games), 2016–2018

MS — Management Science, 2018

TIST — ACM Transactions on Intelligent Systems and Technology, 2016

TKDE — IEEE Transactions on Knowledge and Data Engineering, 2016

Science outreach & selected media coverage (of 400+)

Selected articles in media

Nature Medicine on Will ChatGPT transform healthcare?	3/2023
The Washington Post on We keep trying to make AI therapists. It's not working.	2/2023
Psychology Today on Are AI Chatbots the Therapists of the Future?	1/2023
Cosmos on Mental health support workers improve empathetic responses with help from Al	1/2023
Psychology Today on Can Human-AI Collaboration Enhance Empathy?	11/2022
Medical News Today on The connection between the food environment and healthy eating	1/2022
Wall Street Journal on Can Artificial Intelligence Replace Human Therapists?	2/2021
Nature on Studying the menstrual cycle in a male-dominated field	2/2021
Stanford Human-Centered Artificial Intelligence on Augmenting Psychotherapy with AI	2/2021
GeekWire on Pandemic data mining underscores the importance of social distancing []	3/2020
GeekWire on How data from smartphones [] can inform us about human health []	11/2019
The Globe and Mail on Calls grow to redesign cities with women in mind	4/2019
3M on How creative science is helping make neighborhoods healthier	10/2018
Nature Medicine on Discovery cycle: Period-tracking apps offer new insights	8/2018
New York Times on A Crisis Line That Calms With Texting and Data	12/2017
The Guardian on 'Paying to stay safe': why women don't walk as much as men	10/2017
New York Times on Jakarta, the City Where Nobody Wants to Walk	8/2017
American Council on Science and Health on Activity Inequality: What Does That Mean?	8/2017
CNN on Why are these countries the most obese? Walking is just one reason	7/2017
The Washington Post on Americans take fewer steps than people in U.K., new study reveals	7/2017

Tim Althoff 11/11

CBS on Daily step counts: Which countries are most active - and which are least?	7/2017
TIME on How Step Count Data Can Predict Obesity	7/2017
WIRED on The problem with fitness studies based on activity apps	7/2017
Huffington Post on How Smartphone Data Can Make Healthcare Smarter	7/2017
NIH on NIH-funded team uses smartphone data in global study of physical activity	7/2017
Wall Street Journal on Want to Exercise More? Try Screen Time	12/2016
Forbes on Study Finds Pokémon Go Does Get People Moving []	12/2016
Science on <i>Pokémon Go could add extra years to your life</i>	10/2016
BBC on Could playing Pokemon Go make you live longer?	10/2016
CNN on Pokemon Go could add 2.83 million years to users' lives	10/2016
Reddit's front page on Pokémon Go has added [] 144 billion steps to US physical activit	y 10/2016
The Economist on Science on the web: Social net, working	9/2014
Huffington Post on Here's The Secret Formula for Getting Free Pizza, According to Science	ce 6/2014
ABC News on How to Ask Strangers for a Free Pizza	5/2014
MIT Technology Review on Data Mining Reddit Posts Reveal How to Ask For a Favor	5/2014
Selected video & radio interviews and coverage	
OPB (radio) on UW study looks at how AI can help people have more empathetic []	2/2023
KUOW (radio) on Can AI help increase expression of empathy?	2/2023
Deutschlandfunk (radio) on Automatische Empathie-Korrektur	1/2023
Microsoft Accessibility on University of Washington Empathy Project	1/2023
Not Just Bikes (YouTube) on I Don't Exercise (my city does that for me)	5/2022
ABC News Australia (radio) on Physical Activity Data Reveal Worldwide Activity Inequal	ity 7/2017
BBC (TV) on Click (covering our research on NLP for crisis counseling and mental health)	3/2017