

# TIM ALTHOFF

# CURRICULUM VITAE



Paul G. Allen School of Computer Science & Engineering  
University of Washington  
Box 352355, 3800 E Stevens Way NE  
Seattle, WA 98195, USA

althoff@cs.washington.edu  
<http://althoff.cs.uw.edu>  
+1 (650)-485-0758

- Research** Data science, social network analysis, natural language processing, and applications to well-being
- Professional experience**
- University of Washington**, Seattle, WA, USA 1/2019 – present  
*Tenure-Track Assistant Professor, Paul G. Allen School of Computer Science & Engineering*  
*Adjunct Assistant Professor, Information School*
  - Stanford University**, Stanford, CA, USA 9/2013 – 9/2018  
*Research Assistant* with Jure Leskovec, Dan Jurafsky, Dan McFarland
  - Microsoft Research**, Redmond, WA, USA 6/2016 – 9/2016  
*Research Intern* with Eric Horvitz, Ryan White
  - Google Research**, Mountain View, CA, USA 6/2014 – 9/2014  
*Research Intern* with Kevin Murphy, Xin Luna Dong, Evgeniy Gabrilovich
  - Google Research**, Mountain View, CA, USA 5/2013 – 8/2013  
*Research Intern* with David Ross
  - Google Research**, Mountain View, CA, USA 5/2012 – 8/2012  
*Research Intern* with David Ross, Douglas Eck, Hrishikesh Aradhye
  - University of California, Berkeley**, Berkeley, CA, USA 8/2011 – 5/2012  
*Visiting Student Researcher* with Trevor Darrell
  - German Research Center for Artificial Intelligence**, Kaiserslautern, Germany 11/2009 – 5/2011  
*Research Assistant* with Adrian Ulges, Damian Borth, Andreas Dengel
  - German Research Center for Artificial Intelligence**, Kaiserslautern, Germany 5/2009 – 10/2009  
*Research Assistant* with Adrian Ulges, Thomas Breuel
- Education**
- Stanford University**, Stanford, CA, USA 9/2013 – 9/2018  
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 10/2007 – 7/2013  
M.S. in Computer Science. Minor in Cognitive Psychology  
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 Collections*
- Publications** **Articles in peer-reviewed journals**
- [38] 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
  - [37] 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
  - [36] 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

- [35] Efficient and Explainable Risk Assessments for Imminent Dementia: Insights from an Aging Cohort Study  
Nicasia Beebe-Wang\*, Alexandra Okeson\*, **Tim Althoff**<sup>§</sup>, Su-In Lee<sup>§</sup> (\*<sup>§</sup> equal contribution)  
*IEEE Journal of Biomedical and Health Informatics* — 2021
- [34] 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
- [33] 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. Dey  
*IMWUT / UbiComp* — *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 2019
- [32] Best Practices for Analyzing Large-scale Health Data from Wearables and Smartphone Apps  
Jennifer L. Hicks, **Tim Althoff**, Rok Susic, Peter Kuhar, Bojan Bostjancic, Abby C. King, Jure Leskovec, Scott L. Delp  
*NPJ Digital Medicine* — 2019
- [31] Psychomotor Function Measured via Online Activity Predicts Motor Vehicle Fatality Risk  
**Tim Althoff**, Eric Horvitz, Ryan W. White  
*NPJ Digital Medicine* — 2018
- [30] Large-scale Physical Activity Data Reveal Worldwide Activity Inequality  
**Tim Althoff**, Rok Susic, 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**
- [29] Population-scale Pervasive Health  
**Tim Althoff**  
*IEEE Pervasive Computing* — 2017
- [28] Influence of Pokémon Go on Physical Activity: Study and Implications  
**Tim Althoff**, Ryan W. White, Eric Horvitz  
*JMIR* — *Journal of Medical Internet Research (JMIR)*, 2016  
**Top 0.001% Altmetric Attention Score of 8M articles**
- [27] 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

- [26] 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  
 **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  
 **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
- [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 End-to-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
- [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

- [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 Susic, Jennifer L. Hicks, Abby C. King, Scott L. Delp, Jure Leskovec  
[NeurIPS ML4H](#) — *NeurIPS Workshop on Machine Learning for Health*, 2016

#### Patents

- [P4] Sleep monitoring from implicitly collected computer interactions (2020)  
**Tim Althoff**, Eric Horvitz, Ryan 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 Aradhya

<b>Awards</b>	 <b>Best Paper Award for Outstanding Analysis Paper – ICWSM</b> 6/2021 For <i>Political Bias and Factualness in News Sharing across more than 100,000 Online Communities</i> by ICWSM.	
	 <b>Best Paper Award for Outstanding Study Design – ICWSM</b> 6/2021 For <i>The Effect of Moderation on Online Mental Health Conversations</i> by ICWSM.	
	 <b>Best Paper Award – NAACL NLP4IF</b> 6/2021 For <i>Leveraging Community and Author Context to Explain the Performance and Bias of Text-Based Deception Detection Models</i> by NAACL WS on NLP4IF.	
	 <b>Best Paper Award – WWW/WebConf</b> 4/2021 For <i>Towards Facilitating Empathic Conversations in Online Mental Health Support: A Reinforcement Learning Approach</i> by WWW/WebConf. Single award across all 1736 submissions.	
	<b>Nomination for 2020 Marsha L. Landolt Distinguished Graduate Mentor Award</b> 1/2020 University-wide award recognizing excellent faculty mentors	
	 <b>2019 SIGKDD Doctoral Dissertation Award Winner ACM SIGKDD</b> 8/2019 For <i>Data Science for Human Well-being</i> Recognizing excellent research in the field of data science, data mining and knowledge discovery	
	<b>Kavli Fellow Kavli Frontiers of Science</b> at National Academy of Sciences 4/2019	
	<b>eScience Fellow</b> University of Washington 3/2019	
	<b>Altmetric Top 100 Article 2017</b> 12/2017 For <i>Large-scale Physical Activity Data Reveal Worldwide Activity Inequality</i> Among top 100 public attention scores of over 2 million tracked research outputs in 2017	
	 <b>Best Paper Award – Clinical Natural Language Processing 2016</b> 8/2017 For <i>Natural Language Processing for Mental Health: Large Scale Discourse Analysis of Counseling Conversations</i> by International Medical Informatics Association One of five selected among all research papers published in 2016	
	<b>#1 most tweeted JMIR article 2016; #5 most tweeted JMIR article all time</b> 1/2017 For <i>Influence of Pokémon Go on Physical Activity: Study and Implications</i> by Journal of Medical Internet Research (JMIR)	
	<b>Fellow</b> Digital Ecologies Research Partnership 5/2014	
	<b>Grants &amp; gifts</b>	(Sole) PI: Microsoft Research AI for Accessibility Grant. 5/2021 <i>Supporting Empathy Expression in Long-form Conversation.</i> Total funded amount: \$205,000 (2021-2022).
		(Sole) PI: Office of Naval Research (ONR #N00014-21-1-2154) 4/2021 <i>Quantifying Effective Scalable Governance across Thousands of Online Communities.</i> Total funded amount: \$399,501 (2021–2023).
Co-PI: National Institute of Mental Health (NIH #R01MH125179) 1/2021 <i>Enhancing Engagement with Digital Mental Health Care.</i> Total funded amount: \$3,161,673; Personal share: \$695,567 (2021–2024).		
Co-PI: National Science Foundation (NSF-CNS EAGER #2025022) 8/2020 <i>Partnering with Grab for Cross-ASEAN Regional Urban Insights.</i> Total funded amount: \$250,000 (2020–2022).		
(Sole) PI: Microsoft Research AI for Accessibility Grant. 5/2020 <i>Human-AI Collaboration to Encourage Empathy in Text-Based Mental Health Support.</i> Total funded amount: \$200,000 (2020-2021).		
(Sole) PI: Bill & Melinda Gates Foundation (INV-004841) 3/2020 <i>Data Science for Wearables and Public Health.</i> Total funded amount: \$600,000 (2020-2022).		
(Sole) PI: Allen Institute for Artificial Intelligence (AI2), unrestricted gift (\$100,000) 3/2020		
(Sole) PI: Outreach, unrestricted gift (\$100,000) 3/2020		
(Sole) PI: Pacific Northwest National Laboratory (PNNL) (\$60,000) 1/2020		
Co-PI: National Science Foundation (NSF-IIS Large #1901386) 9/2019 <i>Analysis Engineering for Robust End-to-End Data Science.</i>		

	Total funded amount: \$3,000,000; Personal share: \$786,096 (2019–2024).	
	(Sole) PI: Supportiv, unrestricted gift (\$50,000)	8/2019
	(Sole) PI: Adobe Data Science Research Award (\$50,000; 5/72 proposals funded)	3/2019
	(Sole) PI: Intel Research - Academic Cluster Computing Grant	2/2019
<b>Fellowships</b>	Stanford Graduate Fellowship, SAP Fellow (tuition + US\$41,700 p.a.) (awarded to top 3% of Stanford Ph.D. students)	9/2015 – 8/2018
	Stanford School of Engineering Fellowship (tuition + US\$39,400 p.a.)	9/2013 – 6/2014
	Fulbright scholarship (US\$21,500; declined)	8/2011 – 5/2012
	UC Berkeley scholarship from German Academic Exchange Service (€26,775)	8/2011 – 5/2012
	German National Merit Foundation Scholarship (awarded to top-ranked 0.25% of students nationwide; i.a. €3,600 p.a.)	7/2009 – 7/2013
<b>Advising &amp; mentoring</b>	Margaret Li, Ph.D. student, U Washington (co-advised w. Luke Zettlemoyer)	9/2020 – present
	Ashish Sharma, Ph.D. student, U Washington	9/2019 – present
	Mike Merrill, Ph.D. student, U Washington	9/2019 – present
	Galen Weld, Ph.D. student, U Washington	7/2019 – present
	Jina Suh, Ph.D. student, U Washington (co-advised with James Fogarty)	6/2019 – present
	Joy He-Yueya, B.S. student, U Washington (undergraduate research)	6/2019 – present
	<a href="#">CRA Outstanding Undergraduate Researcher Award</a>	
	Inna Lin, M.S. student, Cornell Tech (summer intern)	6/2020 – present
	Melih Yilmaz, Ph.D. student, U Washington (Ph.D. rotation)	9/2020 – 1/2021
	Ge Zhang, B.S. student, Peking University (undergraduate intern)	6/2019 – 9/2020
	Remy Deshayes, M.S. student, Ecole Polytechnique (summer intern)	6/2020 – 9/2020
	Peter West, Ph.D. student, U Washington (Ph.D. rotation)	6/2019 – 2/2020
	Prakhar Agarwal, M.S. student, U Washington (research assistant)	2/2019 – 6/2019
	Hamed Nilforoshan, B.S. student, Columbia University (undergraduate intern)	6/2017 – 6/2019
	Boris Ivanovic, M.S. student, Stanford University (research assistant)	9/2016 – 6/2019
	Chaitanya Asawa, B.S. student, Stanford University (senior project)	9/2016 – 4/2017
	Pranav Jindal, M.S. student, Stanford University (research assistant)	9/2015 – 6/2016
<b>Teaching experience</b>	Guest lecture, Stanford <i>Big Data Methods for Behavioral, Social and Population Health</i>	Spring 2021
	Co-Instructor, University of Washington <i>Natural Language Processing Seminar (NLP12)</i>	Spring 2021
	Instructor, University of Washington <i>Data Science Capstone (CSE481DS)</i>	Fall 2020
	Instructor, University of Washington <i>Machine Learning for Big Data (CSE547)</i>	Spring 2020
	Guest lecture, University of Washington <i>Computing for Social Good (CSE599)</i>	Spring 2020
	Co-Instructor, University of Washington <i>Big and Small Data in Health (CSE599H)</i>	Fall 2019
	Instructor, University of Washington <i>Machine Learning for Big Data (CSE547)</i>	Spring 2019
	Guest lecture, University of Washington <i>Adv. Methods in Data Science (INFO371)</i>	Spring 2019
	Instructor, University of Washington <i>Data Science for Human Well-being (CSE599H)</i>	Winter 2018
	Guest lecture, Stanford: <i>From Languages to Information (CS124)</i>	3/2016 & 3/2017
	Guest lecture, Recruit Holdings of Japan at Stanford	3/2017
	Guest lecture, Friedrich-Alexander-Universität Erlangen-Nürnberg	12/2016
	Guest lecture, Stanford: <i>Mining Massive Datasets (CS246)</i>	3/2016
<b>Selected invited talks</b>	Computer Science Department, University of Michigan, Ann Arbor, MI, USA	4/2021
	NeurIPS Machine Learning for Mobile Health	12/2020
	Information Science Department, Cornell University, Ithaca, NY, USA	4/2020
	Digital Mental Health Workshop, San Francisco, WA, USA	1/2020
	The Human Factors and Ergonomics Society: Panel on Ubiquitous User Monitoring	10/2019
	Keynote at 2nd KDD Workshop on Offline and Online Evaluation of Interactive Systems	8/2019
	KDD Dissertation Award 2019	8/2019
	Data Abuse Prevention Workshop, DARPA/ISAT, Arlington, VA, USA	8/2018
	Schools of Computer Science and Information, University of Washington, Seattle, WA, USA	4/2018
	Computer Science Department, University of Southern California, Los Angeles, CA, USA	4/2018
	Computer Science Department, ETH Zurich, Zurich, CH	3/2018

Boston Children’s Hospital, Harvard Medical School, Boston, MA, USA	3/2018
HCII, LTI, MLD, Carnegie Mellon University, Pittsburgh, PA, USA	3/2018
Computer Science Department, Columbia University, New York City, NY, USA	3/2018
Interactive Computing Department, Georgia Tech University, Atlanta, GA, USA	3/2018
Computer Science Department, UC San Diego, San Diego, CA, USA	2/2018
Computer Science Department, UC Los Angeles, Los Angeles, CA, USA	2/2018
CSE Department, University of Michigan, Ann Arbor, MI, USA	2/2018
Biomedical Data Science Department, Stanford University, Stanford, CA, USA	2/2018
School of Public Health, UC Berkeley, Berkeley, CA, USA	1/2018
Center for the Study of Language and Information (CSLI), Stanford University, CA, USA	6/2017
Max Planck Institute for Software Systems, Saarbrücken, Germany	12/2016
DFKI Deep Learning Competence Center, Kaiserslautern, Germany	12/2016
Adidas, Herzogenaurach, Germany	12/2016
Microsoft Health Intelligence Group, Redmond, WA, USA	6/2016
Intelligent Systems Lab, University of Amsterdam, Netherlands	1/2013
GI Informatiktage 2011, Bonn, Germany	3/2011

**Selected  
community  
service**

**Outstanding Reviewer Award** — *ACM Int’l Conference on Web-Search and Data Mining*, 2016

**Co-organizer**

*WWW/WebConf*, Co-Chair for *The Web of Health Special Track*, 2021

*Kavli Frontiers of Science*, held at *National Academy of Sciences*, 2021

*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

**Editorial board member**

*Nature Scientific Data*, 2018–present

**(Senior) Program committee member**

*WWW* — *Intl. World Wide Web Conference*, 2015–2020; Senior PC, 2021

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

*KDD* — *ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, 2015–2020

*ICWSM* — *Intl. AAAI Conference on Web and Social Media*, 2016, 2017, 2018, Senior PC, 2021

*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

**Journal reviewer**

*Nature* — *Nature*, 2021

*CellRM* — *Cell Reports Medicine*, 2021

*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**

**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

<b>Stanford Human-Centered Artificial Intelligence</b> on <i>Augmenting Psychotherapy with AI</i>	2/2021
<b>GeekWire</b> on <i>Pandemic data mining underscores the importance of social distancing [...]</i>	3/2020
<b>GeekWire</b> on <i>How data from smartphones [...] can inform us about human health [...]</i>	11/2019
<b>Yahoo News</b> on <i>KDD 2019 Honors Top Data Scientists [...]</i>	8/2019
<b>The Globe and Mail</b> on <i>Calls grow to redesign cities with women in mind</i>	4/2019
<b>3M</b> on <i>How creative science is helping make neighborhoods healthier</i>	10/2018
<b>Nature Medicine</b> on <i>Discovery cycle: Period-tracking apps offer new insights</i>	8/2018
<b>New York Times</b> on <i>A Crisis Line That Calms With Texting and Data</i>	12/2017
<b>The Guardian</b> on <i>'Paying to stay safe': why women don't walk as much as men</i>	10/2017
<b>New York Times</b> on <i>Jakarta, the City Where Nobody Wants to Walk</i>	8/2017
<b>American Council on Science and Health</b> on <i>Activity Inequality: What Does That Mean?</i>	8/2017
<b>CNN</b> on <i>Why are these countries the most obese? Walking is just one reason</i>	7/2017
<b>The Washington Post</b> on <i>Americans take fewer steps than people in U.K., new study reveals</i>	7/2017
<b>CBS</b> on <i>Daily step counts: Which countries are most active - and which are least?</i>	7/2017
<b>TIME</b> on <i>How Step Count Data Can Predict Obesity</i>	7/2017
<b>WIRED</b> on <i>The problem with fitness studies based on activity apps</i>	7/2017
<b>Huffington Post</b> on <i>How Smartphone Data Can Make Healthcare Smarter</i>	7/2017
<b>NIH</b> on <i>NIH-funded team uses smartphone data in global study of physical activity</i>	7/2017
<b>Wall Street Journal</b> on <i>Want to Exercise More? Try Screen Time</i>	12/2016
<b>Forbes</b> on <i>Study Finds Pokémon Go Does Get People Moving [...]</i>	12/2016
<b>Science</b> on <i>Pokémon Go could add extra years to your life</i>	10/2016
<b>BBC</b> on <i>Could playing Pokemon Go make you live longer?</i>	10/2016
<b>CNN</b> on <i>Pokemon Go could add 2.83 million years to users' lives</i>	10/2016
<b>Reddit's front page</b> on <i>Pokémon Go has added [...] 144 billion steps to US physical activity</i>	10/2016
<b>The Economist</b> on <i>Science on the web: Social net, working</i>	9/2014
<b>Huffington Post</b> on <i>Here's The Secret Formula for Getting Free Pizza, According to Science</i>	6/2014
<b>ABC News</b> on <i>How to Ask Strangers for a Free Pizza</i>	5/2014
<b>MIT Technology Review</b> on <i>Data Mining Reddit Posts Reveal How to Ask For a Favor</i>	5/2014
<b>Selected interviews in TV &amp; radio</b>	
<b>ABC News Australia (radio)</b> on <i>Physical Activity Data Reveal Worldwide Activity Inequality</i>	7/2017
<b>BBC (TV)</b> on <i>Click (covering our research on NLP for crisis counseling and mental health)</i>	3/2017