Dan Adler

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Google Scholar: https://bit.ly/dadler-scholar

APPOINTMENTS

Tenure-Track Assistant Professor 2026 -
The University of Michigan
Computer Science and Engineering (CSE)
Principal Investigator, REACH Lab
Faculty Affiliate, Eisenberg Family Depression Center
Faculty Affiliate, Michigan Institute for Data & AI in Society

Postdoctoral Associate 2025 - 2026
Cornell University
Information Science

EDUCATION

Doctor of Philosophy 2019 - 2025
Cornell University
Information Science
Committee: Tanzeem Choudhury (Chair), Deborah Estrin, Fei Wang

Master of Science 2019 - 2022
Cornell University
Information Science

Bachelor of Science 2012 - 2016
The Johns Hopkins University
Double Major in Biomedical Engineering and Applied Mathematics and Statistics
Minor in Computer Science. Specializations in computational biology and optimization.

PUBLICATIONS

* *Indicates equal contribution.*

1. Shaily Roy, Harshit Sharma, **Daniel A. Adler**, Srijan Sen, Tanzeem Choudhury and Asif Salekin. Ethical Fairness in Ubiquitous Health Sensing without Known Attributes. 2026. [arXiv Preprint]

2. Ruishi Zou*, Shiyu Xu*, Margaret E Morris, Jihan Ryu, Timothy D Becker, Nicholas Allen, Anne Marie Albano, Randy Auerbach, **Dan Adler**, Varun Mishra, Lace Padilla, Dakuo Wang, Ryan Sultan and Xuhai Xu. MIND: Empowering Mental Health Clinicians with Multimodal Data Insights through a Narrative Dashboard. Proceedings of the CHI Conference on Human

Factors in Computing Systems. 2026. [PDF, Online]
Best Paper Honorable Mention (Top 5%)

3. Jiani Yu, Christie Lee Luo, Kayla Tormohlen, **Daniel A. Adler**, Yuhua Bao and Emma Elizabeth McGinty. Telehealth Delivery of Peer Support Services for Medicaid Beneficiaries with Substance Use Disorders. Journal of General Internal Medicine. 2025. [Online]

4. **Daniel A. Adler**. Designing Health Technologies as Health Services. CHI '25 Workshop on Envisioning the Future of Interactive Health. [Online]

5. **Daniel A. Adler**, Yuewen Yang, Thalia Viranda, Anna R. Van Meter, Emma Elizabeth McGinty and Tanzeem Choudhury. Designing Technologies for Value-based Mental Healthcare: Centering Clinicians' Perspectives on Outcomes Data Specification, Collection, and Use. Proceedings of the CHI Conference on Human Factors in Computing Systems. 2025. [PDF, Online, arXiv Preprint]

6. Xingbo Wang, Janessa Griffith, **Daniel A. Adler**, Joey Castillo, Tanzeem Choudhury and Fei Wang. Exploring Personalized Health Support through Data-Driven, Theory-Guided LLMs: A Case Study in Sleep Health. Proceedings of the CHI Conference on Human Factors in Computing Systems. 2025. [Online, arXiv Preprint]

7. Stuart E. Middleton, Daniel Leightley, Patrick Hinton, Sarah Ashbridge, **Daniel A. Adler**, Alec Banks, Maria Liakata, Brant Chee and Ana Basiri. AI for Defence: Readiness, Resilience and Mental Health. The RUSI Journal. 2024. [Online]

8. **Daniel A. Adler**, Yuewen Yang, Thalia Viranda, Xuhai Xu, David C. Mohr, Anna R. Van Meter, Julia C. Tartaglia, Nicholas C. Jacobson, Fei Wang, Deborah Estrin and Tanzeem Choudhury. Beyond Detection: Towards Actionable Sensing Research in Clinical Mental Healthcare. Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies. 2024. [PDF, Online]

9. **Daniel A. Adler** and Tanzeem Choudhury. Ubiquitous Computing in Action: Infrastructure to Support Sensing and Mental Health Research in Practice. Companion of the 2024 ACM International Joint Conference on Pervasive and Ubiquitous Computing. 2024. [PDF, Online]

10. **Daniel A. Adler**, Caitlin A. Stamatis, Jonah Meyerhoff, David C. Mohr, Fei Wang, Gabriel J. Aranovich, Srijan Sen and Tanzeem Choudhury. Measuring algorithmic bias to analyze the reliability of AI tools that predict depression risk using smartphone sensed-behavioral data. npj Mental Health Research. 2024. [PDF, Online]

11. Angel H.-C. Hwang, **Daniel A. Adler**, Meir Friedenberg and Qian Yang. Societal-Scale Human-AI Interaction Design? How Hospitals and Companies are Integrating Pervasive Sensing into Mental Healthcare. Proceedings of the CHI Conference on Human Factors in Computing Systems. 2024. [Online]

12. Yuewen Yang*, Thalia Viranda*, Anna R. Van Meter, Tanzeem Choudhury and **Daniel A. Adler**. Exploring Opportunities to Augment Psychotherapy with Language Models. Extended Abstracts of the CHI Conference on Human Factors in Computing Systems. 2024. [Online]

13. Neha Manjunath*, Ze Yuan Li*, Eunsol Soul Choi*, Srijan Sen, Fei Wang and **Daniel A. Adler**. Can Data Augmentation Improve Daily Mood Prediction from Wearable Data? An Empirical Study. Adjunct Proceedings of the ACM International Joint Conference on Pervasive and Ubiquitous Computing. 2023. [Online]

14. Jodie Nghiem*, **Daniel A. Adler***, Deborah Estrin, Cecilia Livesey and Tanzeem Choudhury. Understanding Mental Health Clinicians' Perceptions and Concerns Regarding Using Passive Patient-generated Health Data for Clinical Decision Making: a Qualitative, Semi-structured Interview Study. JMIR Formative Research. 2023. [PDF, Online]

15. **Daniel A. Adler***, Emily Tseng*, Khatiya C. Moon, John Q. Young, John M. Kane, Emanuel Moss, David C. Mohr and Tanzeem Choudhury. Burnout and the Quantified Workplace: Tensions around Personal Sensing Interventions for Stress in Resident Physicians. Proc ACM Hum-Comput Interact., CSCW. 2022. [PDF, Online]

16. **Daniel A. Adler**, Fei Wang, David C. Mohr and Tanzeem Choudhury. Machine learning for passive mental health symptom prediction: Generalization across different longitudinal mobile sensing studies. PLOS ONE. 2022. [PDF, Online]

17. Lisa Militello, Michael Sobolev, Fabian Okeke, **Daniel A. Adler** and Inbal Nahum-Shani. Digital Prompts to Increase Engagement With the Headspace App and for Stress Regulation Among Parents: Feasibility Study. JMIR Formative Research. 2022. [PDF, Online]

18. **Daniel A. Adler**, Fei Wang, David C. Mohr, Deborah Estrin, Cecilia Livesey and Tanzeem Choudhury. A call for open data to develop mental health digital biomarkers. BJPsych Open. 2022. [PDF, Online]

19. **Daniel A. Adler**, Vincent W.-S. Tseng, Gengmo Qi, Joseph Scarpa, Srijan Sen and Tanzeem Choudhury. Identifying Mobile Sensing Indicators of Stress-Resilience. Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies. 2021. [PDF, Online, Video]

20. **Daniel A Adler**, Dror Ben-Zeev, Vincent W.-S. Tseng, John M. Kane, Andrew T. Campbell, Marta Hauser, Emily A. Scherer and Tanzeem Choudhury. Predicting Early Warning Signs of Psychotic Relapse From Passive Sensing Data: An Approach Using Encoder-Decoder Neural Networks. JMIR mHealth and uHealth. [PDF, Online]

TEACHING

University of Michigan, Ann Arbor, MI
Fall 2026, Lead Instructor, EECS 448, Applied Machine Learning for Modeling Human Behavior

Cornell Tech, New York, NY
Fall 2025, Guest Lecturer, INFO 1170/5170: AI in Organizations, Prof. René Kizilcec
Fall 2025, Guest Lecturer, INFO 5610: Sensors, Systems and Algorithms for Precision Behavioral Health, Prof. Tanzeem Choudhury
Fall 2024, Guest Lecturer, INFO 5600: AI for Healthcare, Prof. Rajalakshmi Nandakumar
Spring 2024, Guest Lecturer, INFO 6120: Ubiquitous Computing, Prof. Tanzeem Choudhury
Spring 2024, Guest Lecturer, INFO 5375: Machine Learning for Health, Prof. Fei Wang
Fall 2023, Lead Instructor, INFO 5610: Sensors, Systems and Algorithms for Precision Behavioral Health, Prof. Tanzeem Choudhury [Syllabus]
Spring 2023, Guest Lecturer, INFO 5375: Health Tech Oriented Machine Learning, Prof. Fei Wang
Spring 2022, Teaching Assistant, INFO 5375: Health Tech Oriented Machine Learning, Prof. Fei Wang [Course Website]

Fall 2020, Teaching Assistant, INFO 5610: Sensors, Systems and Algorithms for Precision Behavioral Health, Prof. Tanzeem Choudhury [Syllabus]
Spring 2020, Teaching Assistant, CS 5304: Data Science in the Wild, Prof. Rajalakshmi Nandakumar

Coder Academy, Sydney, Australia
Spring 2019, Lead Instructor and Course Developer, Australia Post Tech Academy
Three-month intensive bootcamp with 20 Australia Post employees covering topics including programming, API development, cloud computing, and data science
Spring 2019, Lead Instructor and Course Developer, Data Science Masterclasses
Hosted monthly masterclasses for industry professionals on various data science topics

TEALS (Microsoft Philanthropies), New York, NY
Spring 2018, Computer Science Teacher, Brooklyn Preparatory High School
Fall 2017, Computer Science Teacher, Brooklyn Preparatory High School
Semester-long high school programming courses with ∼20 students

PricewaterhouseCoopers (PwC), New York, NY
Spring 2018, Instructor and Course Developer, Python Bootcamp
Fall 2017, Instructor and Course Developer, Python Bootcamp
Spring 2017, Instructor and Course Developer, R Bootcamp
Week-long intensive bootcamps to upskill 20-30 PwC employees in data analysis with Python and R

The Johns Hopkins Unviersity, Baltimore, MD
Spring 2016, Teaching Assistant, BME 580.222: Signals, Systems and Controls, Profs. Michael Miller and Sridevi Sarma
Fall 2015, Teaching Assistant, AMS 580.111: Statistical Analysis 1, Prof. Avanti Athreya

SERVICE

Organizing
ACM UbiComp Tutorials Chair 2026
UbiComp and Health Symposium 2026

Workshop Organizing
ACM CHI Social and Emotional Uses of AI 2026
ACM UbiComp Mental Health Workshop Co-leader 2023, 2024
ACM UbiComp Mental Health Workshop Co-organizer 2022, 2025, 2026

Associate Chair
ACM Conference on Human Factors in Computing Systems (CHI) 2025, 2026, 2027

Short Forms Chair
ACM Interactive Health Conference 2026

Technical Program Committee
Conference on Affective Computing and Intelligent Interaction (ACII) 2024, 2025
ACM International Conference on Multimodal Interaction (ICMI) 2023, 2024, 2025
ACM UbiComp Workshop on Fairness and Robustness in ML (FairComp) 2024

ACM KDD Health Day 2022

Reviewer
PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)
PACM on Human-Computer Interaction (CSCW)
ACM Conference on Human Factors in Computing Systems (CHI)
ACM Conference on Designing Interactive Systems (DIS)
ACM Symposium on User Interface Software and Technology (UIST)
ACM Transactions on Computer-Human Interaction (TOCHI)
ACM Transactions on Computing for Healthcare (HEALTH)
npj Digital Medicine
npj Mental Health Research
Nature Computational Science
Journal of Biomedical Informatics
Journal of Medical Internet Research (JMIR)
JAMA Psychiatry
BMC Psychiatry
Frontiers in Psychiatry
PLOS ONE

Campus Service
Admissions Committee at UMich CSE 2026
PhDs at Cornell Tech (PACT) Hiring Committee Representative 2022
Information Science Graduate Student Association (ISGSA) Admissions Representative 2020 - 2021
Information Science Student-Applicant Reading Program Organizer 2020
Tau Beta Pi Engineering Honors Society Maryland Alpha (JHU) Chapter President 2015 - 2016

GRANTS

Primary Investigator on the following grants:
2026 Google Trust, Safety, Security and Privacy. In submission $100K
2026 Eisenberg Family Depression Center Collaborative Minds Mini-Grant. Funded $10K
2026 OpenAI Mental Health Research Grants. Not funded

Co-Investigator on the following grants:
2026 Wellcome Generative AI for Depression and Anxiety. Not funded

Contributed to writing and preliminary analyses on the following grants:
2025 Azure Agentic AI Research & Innovation Initiative. Funded $270K
2025 Wellcome Trust. Funded $27K
2025 NIDA R01DA062431-01A1. Funded $870K
2024 ARPA-H. Not funded
2022 Optum Labs. Funded $1M
2022 Cornell Seed Grant. Funded $75K
2022 Cornell Seed Grant. Funded $75K
2021 Microsoft Cloud Computing Grant. Funded $45K
2021 NSF Graduate Research Fellowship. Funded $111K

2020 NIMH R01. Not funded

PRESENTATIONS

Invited Talks
2026 University of Zurich, Resilient Minds Speaker Series
2025 Tufts University, Human Factors Engineering Seminar
2025 San José State University, Health TechQuity Journal Club
2025 New York University, HiBRID Lab
2025 University of Michigan, CSE Seminar
2025 Northwestern University, CS Seminar
2025 Stevens Institute of Technology, CS Seminar
2025 UW-Madison, CS Seminar
2024 Northwestern University, HABits Lab Group
2024 Northeastern University, UbiWell Lab Group
2024 Mila, AI and Health Reading Group
2023 Northwestern University, CBITs Seminar
2023 UK Defence Science and Technology Laboratory, Mental Health Workshop
2023 Cornell Tech, Digital Life Initiative Seminar [Video]
2023 Cornell Tech, Behavioral Health Next Summit
2022 The Alan Turing Institute, Data Science for Mental Health Special Interest Group [Video]
2020 Cornell University, Artificial Intelligence Seminar

Invited Conference Presentations
2025 ACM UbiComp, Beyond Detection: Towards Actionable Sensing, Talk
2025 ACM CHI, Designing Technologies for Value-based Mental Healthcare, Talk
2024 ACM UbiComp, Doctoral Colloquium, Poster
2024 Conference for Health, Inference and Learning, Talk and Poster
2022 ACM CSCW, Burnout and the Quantified Workplace, Talk [Video]
2022 Nature Medicine in a Virtual Age, Poster [Online]
2022 ACM UbiComp, Identifying Mobile Sensing Indicators of Stress-Resilience, Talk
2022 Cornell Machine Learning in Medicine Symposium, Poster [Online]

Invited Workshop Participation
2025 Wellcome Trust, Ethics of Prediction for Health
2025 ACM CHI, Envisioning the Future of Interactive Health
2024 ACM UbiComp, Doctoral Colloquium
2024 Conference for Health, Inference and Learning, Doctoral Colloquium
2024 Human-Computer Interaction Consortium (HCIC)
2023 ACM CHI, Bridging HCI and Implementation Science
2022 CSCW North East Meetup, Panelist

MENTORSHIP

Student (Current Placement)
2026 - Current Jessica Li (PhD Student at the University of Michigan)
2025 - Current Shiyu Xu (PhD Student at the University of Michigan)

2025 - 2026 Ruishi Zou (PhD Student at Harvard University)
2024 - 2026 Olzhas Yessenbayev (PhD Student at Cornell)
2023 - 2026 Thalia Viranda (PhD Student at Cornell)
2025 - 2026 Konrad Kopko (Master's Student at Cornell)
2023 - 2025 Yuewen Yang (PhD Student at Cornell)
2023 Grace Gao (Software Engineer at Affirm)
2023 Yiheng Hua (Software Engineer at Amazon)
2023 Xinyue Cao (Software Engineer at Huawei)
2023 Hongjiao Zhang (Software Engineer at Red Hat)
2022 - 2024 Jodie Nghiem (Psychiatry Resident at Weill Cornell Medicine)
2022 - 2023 Ze Yuan Li (Senior ML Engineer at PagerDuty)
2022 - 2023 Soul Choi (Data Scientist at Stealth Startup)
2022 - 2023 Neha Manjunath (Research Engineer at Hippocratic AI)
2022 Sam Welsh (Software Engineer at Curative Sound)
2021 Sanika Bapat (Senior Artificial Intelligence Researcher at MITRE)
2021 Grace Le (Software Development Engineer at Amazon)

MEDIA

2025 STAT, AI should come with green, yellow, and red lights for mental health [Online]
2025 Publications Office of the European Union, Decoding Depression [Online]
2025 UK Parliament Post, AI and mental healthcare: ethical and regulatory considerations [Online]
2025 Cornell PiTech, Enhancing Medicare Support with AI [Online]
2024 NIMH, Smartphone Data May Not Reliably Predict Depression Risk in Diverse Groups [Online]
2024 Cornell Chronicle, AI Tools Reveal Complexity of Mental Health Measurement [Online]
2022 Cornell Chronicle, Personal sensing at work: tracking burnout, balancing privacy [Online]
2022 Fast Company, AI must be developed responsibly to improve mental health outcomes [Online]
2020 Cornell Chronicle, Smartphone data helps predict schizophrenia relapses [Online]

HONORS AND AWARDS

2025 Cornell Tech, Technical Student of the Year Award

2024 UbiComp/IMWUT Gaetano Borriello Outstanding Student Award Finalist
2024 Siegel Public Interest Technology PhD Impact Fellow
Supports summer study, including tuition, health insurance, and a $13,665 stipend

2022 Digital Life Initiative Doctoral Fellow *$5,000 research funding*
2022 Cornell Machine Learning in Medicine Best Poster Award
2022 Cornell InfoSci Departmental Service Award

2021 National Science Foundation Graduate Research Fellow
Supports 3 years of study, including tuition, health insurance, and a $37,000 annual stipend

2016 Biomedical Engineering Richard J. Johns Academic Achievement Award
2016 Biomedical Engineering Departmental Honors
2016 Applied Mathematics and Statistics Departmental Honors

2016 Johns Hopkins University Honors
2016 Upsilon Pi Epsilon Computing and Information Honor Society, The Johns Hopkins University

2015 Applied Mathematics and Statistics Mathematical Modeling Award
2015 Tau Beta Pi Engineering Honors Society, The Johns Hopkins University

PATENTS

17/551,994: System implementing encoder-decoder neural network adapted to prediction in behavioral and/or physiological contexts (Not granted)

18/026,371: System implementing generative adversarial network adapted to prediction in behavioral and/or physiological contexts (Not granted)

RELEVANT INDUSTRY EXPERIENCE

Graduate Intern 2024
Medicare Rights Center
Co-designed and built a conversational AI tool with Medicare Rights' helpline staff/volunteers. The tool identifies and summarizes information about public health insurance benefits to support staff/volunteers working on the helpline.

Graduate Intern 2021 - 2022
Optum Labs, UnitedHealth Group (UHG)
Developed data pipelines integrating clinical and non-clinical data into collaborative care programs to improve mental health risk stratification and treatment outcomes.

Educator & Course Developer 2018 - 2019
Coder Academy
Developed and taught various courses covering topics including object-oriented programming, data science, applied machine learning, and AI.

Associate 2015 - 2018
Health Industries Advisory Data Science and Analytics, PricewaterhouseCoopers (PwC)
Developed public health investment strategies for health systems by analyzing public and proprietary clinical and SDoH data with statistical, machine learning, and simulation models.