

# Nikola Banovic

Curriculum Vitae

March 2026

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## EDUCATION

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<b>Ph.D. in Human-Computer Interaction</b> Human-Computer Interaction Institute Carnegie Mellon University	2018
<b>M.Sc. in Computer Science</b> Department of Computer Science University of Toronto	2012
<b>Honours B.Sc. in Computer Science</b> Department of Computer Science University of Toronto	2010
<b>A.A. in Computer Science</b> Computer Science & Information Systems Department Santa Monica College	2004

## PROFESSIONAL APPOINTMENTS

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<b>Associate Director, Michigan Institute for Data &amp; AI in Society (MIDAS)</b> University of Michigan-Ann Arbor, Ann Arbor, USA	2025-present
<b>Associate Professor, Electrical Engineering and Computer Science</b> University of Michigan-Ann Arbor, Ann Arbor, USA	2024-present
<b>Assistant Professor, Electrical Engineering and Computer Science</b> University of Michigan-Ann Arbor, Ann Arbor, USA	2018-2024

## PUBLICATIONS

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### Journal Articles (Refereed)

- [J.16] Trisha Dani, Anindya Das Antar, Anna Kratz, and **Nikola Banovic**. 2026. Beyond Conventional Health Technologies: Investigating Design Opportunities for Improving Self-management in People with Multiple Sclerosis. *ACM Trans. Comput. Healthcare*, (Feb. 2026). Just Accepted. doi: 10.1145/3797885.
- [J.15] Somayeh Molaei, Lionel Peter Robert, and **Nikola Banovic**. 2025. What Do People Want to Know about Artificial Intelligence (AI)? The Importance of Answering End-user Questions to Explain Autonomous Vehicle (AV) Decisions. *Proc. ACM Hum.-Comput. Interact.*, 9, 7, (Oct. 2025). doi: 10.1145/3757437.
- [J.14] Tess Eschebach, **Nikola Banovic**, and Allison McDonald. 2025. Playing 'Google's Game': How Educational YouTubers Manage Tensions Between Education and Monetization. *Proc. ACM Hum.-Comput. Interact.*, 9, 7, (Oct. 2025). doi: 10.1145/3757496.
- [J.13] Nel Escher, Jeffrey Bilik, **Nikola Banovic**, and Ben Green. 2024. Code-ifying the Law: How Disciplinary Divides Afflict the Development of Legal Software. *Proc. ACM Hum.-Comput. Interact.*, 8, CSCW2, (Nov. 2024). doi: 10.1145/3686937.

- [J.12] Patrick C. Kinnunen, Kenneth K. Y. Ho, Siddhartha Srivastava, Chengyang Huang, Wanggang Shen, Krishna Garikipati, Gary D. Luker, **Nikola Banovic**, Xun Huan, Jennifer J. Linderman, and Kathryn E. Luker. 2024. Integrating inverse reinforcement learning into data-driven mechanistic computational models: a novel paradigm to decode cancer cell heterogeneity. *Frontiers in Systems Biology*, 4. DOI: 10.3389/fsysb.2024.1333760.
- [J.11] Sarah Jabbour, David Fouhey, Stephanie Shepard, Thomas S. Valley, Ella A. Kazerooni, **Nikola Banovic**, Jenna Wiens, and Michael W. Sjoding. 2023. Measuring the Impact of AI in the Diagnosis of Hospitalized Patients: A Randomized Clinical Vignette Survey Study. *JAMA*, 330, 23, (Dec. 2023), 2275–2284. DOI: 10.1001/jama.2023.22295.
- [J.10] **Nikola Banovic**, Zhuoran Yang, Aditya Ramesh, and Alice Liu. 2023. Being Trustworthy is Not Enough: How Untrustworthy Artificial Intelligence (AI) Can Deceive the End-Users and Gain Their Trust. *Proc. ACM Hum.-Comput. Interact.*, 7, CSCW1, (Apr. 2023). DOI: 10.1145/3579460.
- [J.9] Anindya Das Antar, Anna Kratz, and **Nikola Banovic**. 2023. Behavior Modeling Approach for Forecasting Physical Functioning of People with Multiple Sclerosis. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol.*, 7, 1, (Mar. 2023). DOI: 10.1145/3580887.
- [J.8] Tahera Hossain, Wanggang Shen, Anindya Antar, Snehal Prabhudesai, Sozo Inoue, Xun Huan, and **Nikola Banovic**. 2023. A Bayesian Approach for Quantifying Data Scarcity when Modeling Human Behavior via Inverse Reinforcement Learning. *ACM Trans. Comput.-Hum. Interact.*, 30, 1, (Mar. 2023). DOI: 10.1145/3551388.
- [J.7] Snehal Prabhudesai, Jeremiah Hauth, Dingkun Guo, Arvind Rao, **Nikola Banovic**, and Xun Huan. 2023. Lowering the computational barrier: Partially Bayesian neural networks for transparency in medical imaging AI. *Frontiers in Computer Science*, 5. DOI: 10.3389/fcomp.2023.1071174.
- [J.6] Xincheng Huang, Keylonnie L. Miller, Alanson P. Sample, and **Nikola Banovic**. 2023. StructureSense: Inferring Constructive Assembly Structures from User Behaviors. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol.*, 6, 4, (Jan. 2023). DOI: 10.1145/3570343.
- [J.5] Sumit Asthana, Sabrina Tobar Thommel, Aaron Lee Halfaker, and **Nikola Banovic**. 2021. Automatically Labeling Low Quality Content on Wikipedia By Leveraging Patterns in Editing Behaviors. *Proc. ACM Hum.-Comput. Interact.*, 5, CSCW2, (Oct. 2021). DOI: 10.1145/3479503.
- [J.4] Snehal Prabhudesai, Nicholas C. Wang, Vinayak Ahluwalia, Xun Huan, Jayapalli R. Bapuraj, **Nikola Banovic**, and Arvind Rao. 2021. Stratification by Tumor Grade Groups in a Holistic Evaluation of Machine Learning for Brain Tumor Segmentation. *Frontiers in Neuroscience*, 15. DOI: 10.3389/fnins.2021.740353.
- [J.3] Nel Escher and **Nikola Banovic**. 2020. Exposing Error in Poverty Management Technology: A Method for Auditing Government Benefits Screening Tools. *Proc. ACM Hum.-Comput. Interact.*, 4, CSCW1, (May 2020). DOI: 10.1145/3392874.
- [J.2] **Nikola Banovic** and John Krumm. 2018. Warming Up to Cold Start Personalization. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol.*, 1, 4, (Jan. 2018). DOI: 10.1145/3161175.
- [J.1] **Nikola Banovic**, Koji Yatani, and Khai N. Truong. 2013. Escape-Keyboard: A Sight-Free One-Handed Text Entry Method for Mobile Touch-screen Devices. *Int. J. Mob. Hum. Comput. Interact.*, 5, 3, (July 2013), 42–61. DOI: 10.4018/jmhci.2013070103.

## Conference Proceedings (Refereed)

- [C.23] Anindya Das Antar, Xun Huan, and **Nikola Banovic**. 2025. "Do Your Guardrails Even Guard?" Method for Evaluating Effectiveness of Moderation Guardrails in Aligning LLM Outputs with Expert User Expectations. *Proceedings of the AAAI/ACM Conference on AI, Ethics, and Society*, 8, 1, (Oct. 2025), 705–718. DOI: 10.1609/aies.v8i1.36583.
- [C.22] Snehal Prabhudesai, Ananya P. Kasi, Anmol Mansingh, Anindya Das Antar, Hua Shen, and **Nikola Banovic**. 2025. "Here the GPT made a choice, and every choice can be biased": How Students Critically Engage with LLMs through End-User Auditing Activity. In *Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI '25)*. Association for Computing Machinery. DOI: 10.1145/3706598.3713714.
- [C.21] Anindya Das Antar, Somayeh Molaei, Yan-Ying Chen, Matthew L Lee, and **Nikola Banovic**. 2024. VIME: Visual Interactive Model Explorer for Identifying Capabilities and Limitations of Machine Learning Models for Sequential Decision-Making. In *Proceedings of the 37th Annual ACM Symposium on User Interface Software and Technology (UIST '24)*. Association for Computing Machinery, Pittsburgh, PA, USA. DOI: 10.1145/3654777.3676323.
- [C.20] Sumit Asthana, Jane Im, Zhe Chen, and **Nikola Banovic**. 2024. "I know even if you don't tell me": Understanding Users' Privacy Preferences Regarding AI-based Inferences of Sensitive Information for Personalization. In *Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '24)*. Association for Computing Machinery, Honolulu, HI, USA. DOI: 10.1145/3613904.3642180.
- [C.19] Divya Ramesh, Caitlin Henning, Nel Escher, Haiyi Zhu, Min Kyung Lee, and **Nikola Banovic**. 2023. Ludification as a Lens for Algorithmic Management: A Case Study of Gig-Workers' Experiences of Ambiguity in Instacart Work. In *Proceedings of the 2023 ACM Designing Interactive Systems Conference (DIS '23)*. Association for Computing Machinery, Pittsburgh, PA, USA, 638–651. DOI: 10.1145/3563657.3596004.

- [C.18] Jane Im, Ruiyi Wang, Weikun Lyu, Nick Cook, Hana Habib, Lorrie Faith Cranor, **Nikola Banovic**, and Florian Schaub. 2023. Less is Not More: Improving Findability and Actionability of Privacy Controls for Online Behavioral Advertising. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems* (CHI '23). Association for Computing Machinery, Hamburg, Germany. doi: 10.1145/3544548.3580773.
- [C.17] Snehal Prabhudesai, Leyao Yang, Sumit Asthana, Xun Huan, Q. Vera Liao, and **Nikola Banovic**. 2023. Understanding Uncertainty: How Lay Decision-makers Perceive and Interpret Uncertainty in Human-AI Decision Making. In *Proceedings of the 28th International Conference on Intelligent User Interfaces* (IUI '23). Association for Computing Machinery, Sydney, NSW, Australia, 379–396. doi: 10.1145/3581641.3584033.
- [C.16] Enhao Zhang and **Nikola Banovic**. 2021. Method for Exploring Generative Adversarial Networks (GANs) via Automatically Generated Image Galleries. In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems* (CHI '21). Association for Computing Machinery, Yokohama, Japan. doi: 10.1145/3411764.3445714.
- [C.15] **Nikola Banovic**, Ticha Sethapakdi, Yasasvi Hari, Anind K. Dey, and Jennifer Mankoff. 2019. The Limits of Expert Text Entry Speed on Mobile Keyboards with Autocorrect. In *Proceedings of the 21st International Conference on Human-Computer Interaction with Mobile Devices and Services* (MobileHCI '19). Association for Computing Machinery, Taipei, Taiwan. doi: 10.1145/3338286.3340126.
- [C.14] Rushil Khurana, **Nikola Banovic**, and Kent Lyons. 2018. In only 3 minutes: perceived exertion limits of smartwatch use. In *Proceedings of the 2018 ACM International Symposium on Wearable Computers* (ISWC '18). Association for Computing Machinery, Singapore, Singapore, 208–211. doi: 10.1145/3267242.3267285.
- [C.13] Qian Yang, **Nikola Banovic**, and John Zimmerman. 2018. Mapping Machine Learning Advances from HCI Research to Reveal Starting Places for Design Innovation. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems* (CHI '18). Association for Computing Machinery, Montreal QC, Canada, 1–11. doi: 10.1145/3173574.3173704.
- [C.12] **Nikola Banovic**, Varun Rao, Abinaya Saravanan, Anind K. Dey, and Jennifer Mankoff. 2017. Quantifying Aversion to Costly Typing Errors in Expert Mobile Text Entry. In *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems* (CHI '17). Association for Computing Machinery, Denver, Colorado, USA, 4229–4241. doi: 10.1145/3025453.3025695.
- [C.11] **Nikola Banovic**, Anqi Wang, Yanfeng Jin, Christie Chang, Julian Ramos, Anind Dey, and Jennifer Mankoff. 2017. Leveraging Human Routine Models to Detect and Generate Human Behaviors. In *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems* (CHI '17). Association for Computing Machinery, Denver, Colorado, USA, 6683–6694. doi: 10.1145/3025453.3025571.
- [C.10] **Nikola Banovic**, Tofi Buzali, Fanny Chevalier, Jennifer Mankoff, and Anind K. Dey. 2016. Modeling and Understanding Human Routine Behavior. In *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems* (CHI '16). Association for Computing Machinery, San Jose, California, USA, 248–260. doi: 10.1145/2858036.2858557.
- [C.9] Karen Church, Denzil Ferreira, **Nikola Banovic**, and Kent Lyons. 2015. Understanding the Challenges of Mobile Phone Usage Data. In *Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services* (MobileHCI '15). Association for Computing Machinery, Copenhagen, Denmark, 504–514. doi: 10.1145/2785830.2785891.
- [C.8] **Nikola Banovic**, Christina Brant, Jennifer Mankoff, and Anind Dey. 2014. ProactiveTasks: the short of mobile device use sessions. In *Proceedings of the 16th International Conference on Human-Computer Interaction with Mobile Devices & Services* (MobileHCI '14). Association for Computing Machinery, Toronto, ON, Canada, 243–252. doi: 10.1145/2628363.2628380.
- [C.7] Christian Koehler, **Nikola Banovic**, Ian Oakley, Jennifer Mankoff, and Anind K. Dey. 2014. Indoor-ALPS: an adaptive indoor location prediction system. In *Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing* (UbiComp '14). Association for Computing Machinery, Seattle, Washington, 171–181. doi: 10.1145/2632048.2632069.
- [C.6] **Nikola Banovic**, Rachel L. Franz, Khai N. Truong, Jennifer Mankoff, and Anind K. Dey. 2013. Uncovering information needs for independent spatial learning for users who are visually impaired. In *Proceedings of the 15th International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS '13). Association for Computing Machinery, Bellevue, Washington. doi: 10.1145/2513383.2513445.
- [C.5] **Nikola Banovic**, Tovi Grossman, and George Fitzmaurice. 2013. The effect of time-based cost of error in target-directed pointing tasks. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems* (CHI '13). Association for Computing Machinery, Paris, France, 1373–1382. doi: 10.1145/2470654.2466181.
- [C.4] **Nikola Banovic**, Tovi Grossman, Justin Matejka, and George Fitzmaurice. 2012. Waken: reverse engineering usage information and interface structure from software videos. In *Proceedings of the 25th Annual ACM Symposium on User Interface Software and Technology* (UIST '12). Association for Computing Machinery, Cambridge, Massachusetts, USA, 83–92. doi: 10.1145/2380116.2380129.
- [C.3] **Nikola Banovic**, Fanny Chevalier, Tovi Grossman, and George Fitzmaurice. 2012. Triggering triggers and burying barriers to customizing software. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems* (CHI '12). Association for Computing Machinery, Austin, Texas, USA, 2717–2726. doi: 10.1145/2207676.2208666.
- [C.2] Koji Yatani, **Nikola Banovic**, and Khai Truong. 2012. SpaceSense: representing geographical information to visually impaired people using spatial tactile feedback. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems* (CHI '12). Association for Computing Machinery, Austin, Texas, USA, 415–424. doi: 10.1145/2207676.2207734.

- [C.1] **Nikola Banovic**, Frank Chun Yat Li, David Dearman, Koji Yatani, and Khai N. Truong. 2011. Design of unimanual multi-finger pie menu interaction. In *Proceedings of the ACM International Conference on Interactive Tabletops and Surfaces (ITS '11)*. Association for Computing Machinery, Kobe, Japan, 120–129. doi: 10.1145/2076354.2076378.

## Extended Abstracts (Refereed & Juried)

- [EA.10] Xun Huan, Valeriy Yu Ivanov, Francina Dominguez, John Ziker, **Nikola Banovic**, Richard Gonzalez, Brian F. Jewett, Chen Cheng, Vinh Tran, Snehal Prabhudesai, Deffi Putri, Kevin Gray, Sudhansu Rath, Remi Masterson, and Sarah Whitaker. 2024. A physics-human integrated decision-making framework for DoD installations under flood risks. In *AGU Fall Meeting Abstracts*. (Dec. 2024).
- [EA.9] Shane C. Quinonez, David A. Stewart, and **Nikola Banovic**. 2024. ChatGPT and Artificial Intelligence in Graduate Medical Education Program Applications. *Journal of Graduate Medical Education*, 16, 4, (Aug. 2024), 391–394. doi: 10.4300/JGME-D-23-00823.1.
- [EA.8] Nel Escher and **Nikola Banovic**. 2024. Hexing Twitter: Channeling Ancient Magic to Bind Mechanisms of Extraction. In *Extended Abstracts of the 2024 CHI Conference on Human Factors in Computing Systems (CHI EA '24)*. Association for Computing Machinery. doi: 10.1145/3613905.3644071.
- [EA.7] Jane Im, **Nikola Banovic**, and Florian Schaub. 2022. Designing and Building Social Platforms Grounded in Consent. In *Trust and Safety Research Conference*.
- [EA.6] Nel Escher, Jeffrey Bilik, Alexander Miller, Jennifer Jiyoung Huseby, Divya Ramesh, Alice Liu, Sam Mikell, Nina Cahill, Ben Green, and **Nikola Banovic**. 2022. Cod(e)ifying The Law. In *Programming Languages and the Law (Prolala) 2022*.
- [EA.5] John Joon Young Chung, Fuhu Xiao, **Nikola Banovic**, and Walter S. Lasecki. 2019. Towards Instantaneous Recovery from Autonomous System Failures via Predictive Crowdsourcing. In *Adjunct Proceedings of the 32nd Annual ACM Symposium on User Interface Software and Technology (UIST '19 Adjunct)*. Association for Computing Machinery, New Orleans, LA, USA, 16–18. doi: 10.1145/3332167.3357100.
- [EA.4] Per Ola Kristensson, **Nikola Banovic**, Antti Oulasvirta, and John Williamson. 2019. Computational Interaction with Bayesian Methods. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems (CHI EA '19)*. Association for Computing Machinery, Glasgow, Scotland Uk, 1–6. doi: 10.1145/3290607.3298820.
- [EA.3] Megh Marathe, Ting-Wei Chang, Lucky Chowdhury, Michelle L. Chung, Chia-Hsuan Su, YoonSeon Yi, **Nikola Banovic**, Alanson Sample, and Gabriela Marcu. 2019. Tedious versus taxing: Needs assessment in a pediatric feeding disorder clinic. In *CHI'19 Workshop on "Workgroup in Interactive Systems for Healthcare (WISH) Symposium"*.
- [EA.2] John Joon Young Chung, Fuhu Xiao, Nicholas Recker, Kammeran Barnes, **Nikola Banovic**, and Walter S Lasecki. 2019. Accident prevention with predictive instantaneous crowdsourcing. In *CHI'19 Workshop on "Looking into the Future: Weaving the Threads of Vehicle Automation"*.
- [EA.1] **Nikola Banovic**. 2017. Method for Understanding Complex Human Routine Behaviors from Large Behavior Logs. In *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '17)*. Association for Computing Machinery, Denver, Colorado, USA, 254–258. doi: 10.1145/3027063.3027135.

## Workshops Organized (Juried)

- [W.3] Malik Khadar, Julia Cecil, Leon van der Neut, **Nikola Banovic**, Kevin Baum, Stevie Chancellor, Enrico Costanza, Motahhare Eslami, Anna Maria Feit, Susanne Gaube, Ujwal Gadiraju, and Harmanpreet Kaur. 2026. AI CHAOS! 2<sup>nd</sup> Workshop on the Challenges for Human Oversight of AI Systems. In *Extended Abstracts of the 2026 CHI Conference on Human Factors in Computing Systems (CHI EA '26)*. Association for Computing Machinery, Barcelona, Spain. doi: 10.1145/3772363.3778736.
- [W.2] Kashyap Todi, Jean Vanderdonckt, Xiaojuan Ma, Jeffrey Nichols, and **Nikola Banovic**. 2020. AI4AUI: Workshop on AI Methods for Adaptive User Interfaces. In *Companion Proceedings of the 25th International Conference on Intelligent User Interfaces (IUI '20 Companion)*. Association for Computing Machinery, Cagliari, Italy, 17–18. doi: 10.1145/3379336.3379359.
- [W.1] **Nikola Banovic**, Antti Oulasvirta, and Per Ola Kristensson. 2019. Computational Modeling in Human-Computer Interaction. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems (CHI EA '19)*. Association for Computing Machinery, Glasgow, Scotland Uk, 1–7. doi: 10.1145/3290607.3299032.

## Edited Books

- [EB.1] John Williamson, Antti Oulasvirta, Per Ola Kristensson, and **Nikola Banovic**, (Eds.) 2022. *Bayesian Methods for Interaction and Design*. Cambridge University Press.

## Dissertation

- [D.1] **Nikola Banovic**. 2018. Computational Method for Understanding Complex Human Routine Behaviors, (May 2018). doi: 10.1184/R1/7188812.v1.

## Book Chapters, Invited Articles & Technical Reports

- [T.4] Chung Hoon Hong, Yuan Liang, Sagnik Sinha Roy, Arushi Jain, Vihang Agarwal, Ryan Draves, Zhizhuo Zhou, William Chen, Yujian Liu, Martha Miracky, Lily Ge, **Nikola Banovic**, and David Jurgens. 2020. Audrey: A Personalized Open-Domain Conversational Bot. (2020). <https://arxiv.org/abs/2011.05910>.
- [T.3] **Nikola Banovic**, Jennifer Mankoff, and Anind K Dey. 2018. Computational model of human routine behaviors. In *Computational Interaction*. Oxford University Press, Oxford, 377–398.
- [T.2] Julian Ramos, Zhen Li, Johana Rosas, **Nikola Banovic**, Jennifer Mankoff, and Anind Dey. 2016. Keyboard Surface Interaction: Making the keyboard into a pointing device. (2016). <https://arxiv.org/abs/1601.04029>.
- [T.1] **Nikola Banovic**. 2016. To Replicate or Not to Replicate? *GetMobile: Mobile Comp. and Comm.*, 19, 4, (Mar. 2016), 23–27. doi: 10.1145/2904337.2904346.

## Patents (including provisional patents and patents pending)

- [P.2] Anindya Das Antar, Xun Huan, and **Nikola Banovic**. 2025. Guardrail Evaluation and Selection for Use with Pre-Trained Generative Artificial Intelligence Models. US Patent App. 63/915,117. (Nov. 2025).
- [P.1] Anind K Dey, **Nikola Banovic**, and Jennifer C Mankoff. 2018. Data Processing System for Generating Data Structures. US Patent App. 15/655,666. (Jan. 2018).

## AWARDS AND HONORS

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NSF CAREER Award	2023
Amazon Alexa Prize Semi-finalist	2020
Honorable Mention Award (CHI '17)	2017
Honorable Mention Award (CHI '16)	2016
Yahoo! Fellow	2015
Honorable Mention Award (MobileHCI '15)	2015
Best Paper Award (MobileHCI '14)	2014
NSERC Post-graduate Scholarship	2013-2016
Wolfond Scholarship in Wireless Information Technology	2010

## GRANTS AND FELLOWSHIPS

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<b>Flood and Weather Resilience through Risk-Informed Operations and Readiness</b> Office of Naval Research (ONR); Co-PI; \$5,227,827	2025-2029
<b>Facilitating Appropriate Reliance on Generative AI (GenAI) Tools by Investigating Reliance Decisions and Norms</b> Michigan Institute for Data & AI in Society (MIDAS); Co-I; \$75,000	2025-2026
<b>Advancing Responsible AI by Rethinking the Roles of Marginalized Communities in the Innovation Lifecycle: Developing the UBEC Approach</b> Michigan Institute for Data & AI in Society (MIDAS); Co-I; \$75,000	2024-2025
<b>Patient Oriented Research and Mentoring in Multidisciplinary Chronic Pain Treatments</b> National Institutes of Health (NIH); Co-I; \$128,488	2024-2029
<b>CAREER: Achieving Explainable Artificial Intelligence (AI) through Human-AI Interaction</b> National Science Foundation (NSF); PI; \$582,031	2023-2028

<b>Decision-Making with Uncertainty for DoD Installations under Climate Change Impacts on Flood Risks</b> Office of Naval Research (ONR); Co-PI; \$2,690,000	2023-2025
<b>Detecting and Countering Untrustworthy AI through AI Literacy</b> Michigan Institute for Data & AI in Society (MIDAS); PI; \$75,000	2023-2024
<b>Human-AI Collaborations to Improve Accuracy and Mitigate Bias in Acute Dyspnea Diagnosis</b> National Institutes of Health (NIH); Co-I; \$2,758,838	2022-2025
<b>Predicting Single Cell Behavior</b> W. M. Keck Foundation; Co-I; \$1,000,000	2022-2024
<b>Designing In-Situ Learning Experiences</b> U-M CoE START Program; Co-PI; \$60,000	2022-2023
<b>Learning from the Unseen Experience of Expert Users to Support Machine-aided Decision-making</b> Toyota Research Institute (TRI); PI; \$868,000	2021-2024
<b>Cancer Cells: Greedy Individuals or Team Players?</b> Michigan Institute for Computational Discovery and Engineering (MICDE); Co-PI; \$82,000	2021-2023
<b>Practical and Optimal Sequential Bayesian Experimental Design for Complex Systems Incorporating Human Experimenter Preferences</b> Department of Energy (DoE); Co-PI; \$970,822	2020-2023
<b>EAGER: SaTC-EDU: Identifying Educational Conceptions and Challenges in Cybersecurity and AI</b> National Science Foundation (NSF); Co-I; \$300,000	2020-2023
<b>Rackham Recruiting Bootcamp Grant (ReBoot)</b> Rackham Graduate School; PI; \$20,000	2020-2024
<b>Modeling and Understanding Human-Machine Teaming and Decision Making</b> Toyota Research Institute (TRI); PI; \$100,000	2019-2021
<b>Augmented Utensils for Monitoring Feeding Disorders in Children</b> MCubed; Co-PI; \$60,000	2019-2021
<b>Personalization through ML models using Temporal Consumer Interactions Data</b> Procter and Gamble (P&G); PI; \$100,000	2018-2019

## INVITED TALKS AND PANELS

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<b>Informing and Communicating Responsible AI Policy through Design Probes</b> Workshop on Human-Centered Machine Learning, Apple, Cupertino, USA	08/2025
<b>Informing and Communicating Responsible AI Policy through Design Probes</b> Apple, Pittsburgh, USA	11/2024
<b>Detecting and Countering Untrustworthy Artificial Intelligence (AI)</b> DGP Seminar Series, University of Toronto, Canada	12/2023
<b>Detecting and Countering Untrustworthy Artificial Intelligence (AI)</b> Distinguished Lecture Series, University of Virginia, USA	11/2023
<b>Detecting and Countering Untrustworthy Artificial Intelligence (AI)</b> Keynote at the AI & HCI Workshop (ICML 2023)	07/2023
<b>Panel on AI shaping the future of Trust, Safety, Privacy &amp; Security</b> Human-Computer Interaction Consortium (HCIC 2023)	06/2023

<b>Detecting and Countering Untrustworthy Artificial Intelligence (AI)</b> Seminar Series, University of Glasgow, UK	05/2023
<b>Explainability and Interpretability through Interaction</b> 2021 ICIEV & IVPR Keynote Series	01/2021
<b>Computational Modeling in Human-Computer Interaction</b> Seminar Series on Data Science, University of Lisbon	11/2020
<b>Computational Modeling in Human-Computer Interaction</b> Joint 2019 ICIEV, IVPR, & ABC	06/2019
<b>Computational Models of Human Behavior</b> Dagstuhl Seminar on Computational Interactivity, Germany	06/2017
<b>Human Data Driven Interfaces</b> Computer Science Department, University of Toronto, Toronto, Canada	03/2017
<b>Human Data Driven Interfaces</b> Bosch Research and Technology Center, Pittsburgh, USA	12/2016
<b>Streamlining Mobile Device Use</b> DGP, Computer Science Department, University of Toronto, Toronto, Canada	08/2015
<b>Streamlining Mobile Device Use</b> DUB, University of Washington, Seattle, USA	07/2015

## CAMPUS/DEPARTMENTAL TALKS

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<b>“How do I know I can trust ChatGPT?” Critically Engaging with Generative AI</b> MaCSS Scholars Program, University of Michigan, Ann Arbor, USA	06/2025
<b>Detecting and Countering Untrustworthy Artificial Intelligence (AI)</b> CSE Faculty Seminar Series, University of Michigan, Ann Arbor, USA	11/2023
<b>Interactive Human-centered Explainable Artificial Intelligence (XAI)</b> UX@UM, University of Michigan, Ann Arbor, USA	03/2023
<b>Computational Modeling in Human-Computer Interaction</b> Michigan AI Symposium 2018, University of Michigan, Ann Arbor, USA	10/2018

## TEACHING EXPERIENCE

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### University of Michigan, Ann Arbor, USA

#### Graduate Courses

Human-Computer Interaction	taught seven times between Winter '20 & Winter '26
Computational Modeling in HCI	Fall '18, Fall '19

#### Undergraduate Courses

User Interface Development	taught three times between Winter '21 & Winter '23
Modeling Human Behavior	Winter '19

### Carnegie Mellon University, Pittsburgh, USA

Interactive Data Science (Instructor of record)	Spring '17
Software Structures for User Interfaces	Fall '15
User-Centered Research & Evaluation	Fall '14

## University of Toronto, Toronto, Canada

The Design of Interactive Computational Media

Fall '10, Spring '11, Fall '11

## ADVISING EXPERIENCE

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### University of Michigan, Ann Arbor, USA

#### Current Ph.D. Students

Snehal Prabhudesai  
Jaewoong Choi

Tsedeniya Amare  
Ishika Joshi

#### Graduated Doctoral Students

Nel Escher (moved on to Postdoctoral Fellow at UC Berkeley)	2025
Sumit Asthana (moved on to Applied Scientist at Microsoft)	2025
Anindya Das Antar (moved on to Postdoctoral Fellow at the University of Notre Dame)	2025
Divya Ramesh (moved on to Tenure-track Assistant Professor at UNCC)	2025

#### Doctoral Committees

Zhefan Ye	2026	Shengpu Tang	2024	Bryan Stearns	2022
Chengyang Huang	2025	Harry Rubin-Falcone	2024	Ian Fox	2021
Agrima Seth	2025	John Chung	2023		
Tamara Nelson-Fromm	2025	Preeti Ramaraj	2023	Matthew Bernhard	2021
Andrew McCrabb	2025	Wanggang Shen	2023	Sai Gouravajhala	2021
Yasha S. Iravantchi	2025	Mimansa Jaiswal	2023		
Amani Alkayyali	2024	Jordan Huffaker	2023	Chuan-Che Huang	2019

#### Past Post-doctoral Researchers

Somayeh Molaei (moved on to Data Scientist at HealthyLifetime) 2021-2023

#### Past Undergraduate and Master's Research Assistants Who Co-authored Manuscripts

Ananya Kasi (moved on to PhD at Georgia Tech)	2025
Daniel Chechelnitsky (moved on to PhD at Carnegie Mellon University)	2024
Trisha Dani (moved on to Meta)	2024
Tess Eschebach (moved on to PhD at the University of Chicago)	2023
Zhe Chen (moved on to Ecological)	2023
Ruiyi Wang (moved on to Masters at Carnegie Mellon University)	2022
Caitlin Henning (moved on to Foley & Lardner LLP)	2022
Alice Liu (moved on to Qualtrics)	2021
Xincheng Huang (moved on to PhD at the University of British Columbia)	2021
Keylonnie L. Miller (moved on to Meta)	2021
Kevin Pu (moved on to PhD at the University of Toronto)	2020
Sabrina Tobar Thommel (moved on to Meta)	2020
Enhao Zhang (moved on to PhD at the University of Washington)	2020
Aditya Ramesh (moved on to Cisco)	2019

## RESEARCH EXPERIENCE

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### Graduate Research Assistant

Carnegie Mellon University, Pittsburgh, USA

08/2012-08/2018

<b>Machine Learning Intern</b> Uber Advanced Technologies Center, Pittsburgh, USA	05/2016-07/2016
<b>Research Intern</b> Microsoft Research, Redmond, USA	05/2015-08/2015
<b>Research Intern</b> Autodesk Research, Toronto, Canada	01/2012-09/2012 05/2011-09/2011
<b>Graduate Research Assistant</b> University of Toronto, Toronto, Canada	09/2010-12/2011

## SERVICE TO PROFESSION

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### Program Chair (PC)

2027 ACM Conference on Intelligent User Interfaces (ACM IUI)	2025-present
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### Subcommittee Chair (SC)

2026 CHI Conference on Human Factors in Computing Systems (CHI)	2025-present
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### Associate Editor (AE)

PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)	2019-2023
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### Associate Chair (AC) / Program Committee (PC) Member

Graphics Interface (GI)	2020, 2026
AI, Ethics, and Society (AIES)	2025
CHI Conference on Human Factors in Computing Systems (CHI)	2018, 2020-2024
Computer-Supported Cooperative Work and Social Computing (CSCW)	2024
Fairness, Accountability and Transparency (FAccT)	2022, 2023
User Interface Software and Technology (UIST)	2020-2023
The Web Conference (TheWebConf)	2020
Visualization in Data Science (VDS)	2018-2019

### Organizing Committees

CHI 2025 Workshops Co-chair	2024-2025
The 7th Summer School on Computational Interaction (CIX2023) Chair	2023
Ubicomp & ISWC 2021 Workshop and Tutorial Co-chair	2020-2021
UIST 2017 Publicity Co-chair	2017
Ubicomp & ISWC 2017 Publicity Co-chair	2017

### Workshop Organizer

ACM CHI 2026 AI CHAOS! 2 <sup>nd</sup> Workshop on the Challenges for Human Oversight of AI Systems	2026
ACM IUI 2020 Workshop on AI Methods for Adaptive User Interfaces	2020
ACM CHI 2019 Workshop on Computational Modeling in Human-Computer Interaction	2019

### External Reviewer

CHI	MobileHCI	IEEE Intelligent Systems
TOCHI	Human-Computer Interaction	IEEE Trans. Mobile Comput.
UIST	INTERACT	
CSCW	ISWC	IJCAI
IMWUT/Ubicomp	Pervasive Health	SIGGRAPH
DIS	Pervasive and Mobile Comput.	
TiiS	IEEE Pervasive Comput.	Frontiers in AI

## DEPARTMENTAL/UNIVERSITY SERVICE

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### University of Michigan, Ann Arbor, USA

CSE Student Outreach Committee Chair	2025-26
CSE Curriculum Review Committee Member	2025-26
CSE Diversity, Equity, and Inclusion (DEI) Chair	2023-24
The Weinberg Institute for Cognitive Science Undergraduate Committee Member	2022-23, 2023-24
CSE Tenure Track Recruiting and Hosting Committee Member	2021-22, 2022-23
CSE Graduate Fellowship Workshop Chair	2022-23
CSE Graduate Recruiting Committee Member	2022-23
CSE Graduate Recruiting Committee Chair	2020-21, 2021-22
CSE Graduate Admission Committee Member	2018-19, 2019-20
CSE Faculty Seminar Series Chair	2018-19

## EXTRACURRICULAR UNIVERSITY SERVICE

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### University of Michigan, Ann Arbor, USA

Tech4Social Good	2020-2023
Undergraduate Student Organization Faculty Mentor	
Big Data Summer Institute (BDSI)	2021, 2022
Machine Learning Project Group Mentor	

## MEDIA COVERAGE

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- [M.4] AFP. 2025. Does 'vibe coding' make everyone a programmer? *The Economic Times*, (Mar. 2025).
- [M.3] C. T. Jones. 2024. Twitter Updated Its AI Chatbot. The Images Are A Dumpster Fire. *Rolling Stone*, (Aug. 2024).
- [M.2] Hilary Achauer. 2023. Your Next Fitness Coach Could Be a Robot. *New York Times*, (Apr. 2023).
- [M.1] Kate Giammarise. 2020. Study: Pa. benefits screening tool may be telling potential applicants they don't qualify. *Pittsburgh Post-Gazette*, (Sept. 2020).

## PROFESSIONAL MEMBERSHIPS/AFFILIATIONS

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Association for Computing Machinery (ACM)  
Special Interest Group on Computer-Human Interaction (ACM SIGCHI)