Michael A. Madaio madaiom@google.com // michaelmadaio.com

PROFESSIONAL EXPERIENCE
Senior Research Scientist   2024-present
Center for Responsible AI, Google Research, New York City

Research Scientist   2022-2024
Center for Responsible AI, Google Research, New York City

Postdoctoral Researcher   2020-2022
FATE Research Group, Microsoft Research, New York City

EDUCATION
Ph.D. in Human-Computer Interaction   2020
Carnegie Mellon University

M.S. in Digital Media   2015
Georgia Institute of Technology

M.Ed. in Curriculum and Instruction   2010
University of Maryland, College Park

B.A. in English Language and Literature   2009
University of Maryland, College Park

HONORS AND AWARDS
Best Paper Award, ACM FAccT Conference   2024
Best Paper Honorable Mention, ACM CHI Conference   2024
Best Student Paper Award, Intl. Conference on AI in Education (AIED)   2020
Best Paper Award, ACM CHI Conference   2020
Siebel Scholarship, Siebel Scholars Foundation   2019
Best Paper Award, ACM COMPASS Conference   2019
Best Paper Award, Conference of the Learning Sciences (ICLS)   2018
Best Student Paper Nominee, Conference of the Learning Sciences (ICLS) 2018
Best Student Paper Award, CSCL Conference   2017
Ford Foundation Pre-Doctoral Fellowship, Honorable Mention   2016-2017
Best Student Paper Runner-up, ACM KDD Conference   2016
Fellowship, Institute for Education Sciences, U.S. Dept. of Education   2016
Best Thesis Award, Ivan Allen College, Georgia Tech   2015
Excellence in Teaching Award, Montgomery County Public Schools   2011-2012

ACADEMIC PUBLICATIONS
Google Scholar: https://scholar.google.com/citations?user=-YCSfWoAAAAJ

REFEREED CONFERENCE PUBLICATIONS (STRINGENTLY PEER-REVIEWED)

[C27] Smith, J., **Madaio, M.**, Burke, R., & Fiesler, C. (2025). Pragmatic Fairness: Evaluating Machine Learning Fairness Within the Constraints of Industry. Accepted to the *2025 ACM Conference on Fairness, Accountability, and Transparency (FAccT)*.

[C26] Solyst, J., Wilcox, L., & **Madaio, M**. (2025). "The Conduit by which Change Happens": Processes, Barriers, and Support for Interpersonal Learning about Responsible AI. Accepted to the *2025 CHI Conference on Human Factors in Computing Systems*.

[C25] Diaz, F., & **Madaio, M**. (2024). Scaling laws do not scale. In *Proceedings of the AAAI/ACM Conference on AI, Ethics, and Society* (Vol. 7, pp. 341-357).

[C24] Cunningham, J., Blodgett, S. L., **Madaio, M.**, Daumé III, H. D., Harrington, C., & Wallach, H. (2024). Understanding the impacts of language technologies' performance disparities on African American language speakers. In *Findings of the Association for Computational Linguistics ACL 2024* (pp. 12826-12833).

[C23] **Madaio, M.**, Kapania, S., Qadri, R., Wang, D., Zaldivar, A., Denton, R., & Wilcox, L. (2024). Learning about Responsible AI On-The-Job: Learning Pathways, Orientations, and Aspirations. In *The 2024 ACM Conference on Fairness, Accountability, and Transparency (FAccT)*. **Best Paper Award (top 1% of submissions)**

[C22] Wang, Z. J., Kulkarni, C., Wilcox, L., Terry, M., & **Madaio, M**. (2024). Farsight: Fostering Responsible AI Awareness During AI Application Prototyping. In *Proceedings of the CHI Conference on Human Factors in Computing Systems*. **Best Paper Award, Honorable Mention (top 5% of submissions)** https://pair-code.github.io/farsight

[C21] Berman, G., Goyal, N., & **Madaio, M**. (2024). A Scoping Study of Evaluation Practices for Responsible AI Tools: Steps Towards Effectiveness Evaluations. In *Proceedings of the CHI Conference on Human Factors in Computing Systems*.

[C20] **Madaio, M.**, Chen, J., Wallach, H., & Wortman Vaughan, J. (2024). Tinker, Tailor, Configure, Customize: The Articulation Work of Contextualizing an AI Fairness Checklist. In *Proceedings of the ACM on Human-Computer Interaction, 8(CSCW1)*, 1-20.

[C19] Delgado, F., Yang, S., **Madaio*, M**., & Yang*, Q. (2023). The participatory turn in AI design: Theoretical foundations and the current state of practice. In *Proceedings of the 3rd ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization*. [*equal contributions]

[C18] Wong, R. Y., **Madaio, M.**, & Merrill, N. (2023). Seeing like a toolkit: How toolkits envision the work of AI ethics. *Proceedings of the ACM on Human-Computer Interaction*, 7(CSCW1), 1-27.

[C17] Deng, W. H., Yildirim, N., Chang, M., Eslami, M., Holstein, K., & **Madaio, M**. (2023). Investigating Practices and Opportunities for Cross-functional Collaboration around AI Fairness in Industry Practice. In *Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency*.

[C16] Wang, Q., **Madaio, M.**, Kane, S., Kapania, S., Terry, M., & Wilcox, L. (2023). Designing responsible AI: Adaptations of UX practice to meet responsible AI challenges. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems*.

[C15] Chau, C., Holstein, K., **Madaio, M.** (2022). Part of the Conversation: Workforce Professionals' Perspectives on the Roles and Impacts of Workforce Technologies. *PACM on Human-Computer Interaction 6, CSCW2*, Article 410 (November 2022), 22 pages.

[C14] **Madaio, M.,** Egede, L., Subramonyam, H., Wortman Vaughan, J., & Wallach, H. (2022). Assessing the Fairness of AI Systems: AI Practitioners' Processes, Challenges, and Needs for Support. *Proc. ACM Hum.-Comput. Interact. 6, CSCW1*, Article 52 (April 2022), 26 pages.

[C13] Chatterjee, R., **Madaio, M.**, & Ogan, A. (2020). Predicting Gaps in Usage in a Phone-Based Literacy Intervention System. In the *International Conference on Artificial Intelligence in Education*. **Best Student Paper Award (top 1% of submissions)**

[C12] **Madaio, M. A**., Stark, L., Wortman Vaughan, J., & Wallach, H. (2020). Co-designing checklists to understand organizational challenges and opportunities around fairness in AI. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*. **Best Paper Award (top 1% of submissions)**

[C11] **Madaio, M.**, Yarzebinski, E., Kamath, V., Zinszer, B.D., Hannon-Cropp, J., Tanoh, F., Akpe, Y.H., Seri, A.B., Jasińska, K.K. & Ogan, A., (2020). Collective support and independent learning with a voice-based literacy technology in rural communities. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*.

[C10] **Madaio, M.,** Kamath, V., Yarzebinski, E., Zasacky, S., Tanoh, F., Hannon-Cropp, J., Cassell, J., Jasinska, K. & Ogan, A., (2019). "You give a little of yourself:" family support for children's use of an IVR literacy system. In *Proceedings of the 2nd ACM SIGCAS Conference on Computing and Sustainable Societies*. **Best Paper Award (top 1% of submissions)**

[C9] **Madaio, M.**, Tanoh, F., Seri, A. B., Jasinska, K., & Ogan, A. (2019). "Everyone Brings Their Grain of Salt:" Designing for Low-Literate Parental Engagement with a Mobile Literacy Technology in Côte d'Ivoire. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems.*

[C8] Singh Walia, B., Hu, Q., Chen, J., Chen, F., Lee, J., Kuo, N., Narang, P., Batts, J., Arnold, G. & **Madaio, M.**, (2018). A dynamic pipeline for spatio-temporal fire risk prediction. In *Proceedings of the 24th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining.* [12% acceptance rate]

[C7] Uchidiuno, J., Yarzebinski, E., **Madaio, M.**, Maheshwari, N., Koedinger, K., & Ogan, A. (2018). Designing appropriate learning technologies for school vs home settings in Tanzanian rural villages. In *Proceedings of the 1st ACM SIGCAS Conference on Computing and Sustainable Societies.*

[C6] Zhao, Z., **Madaio, M.**, Pecune, F., Matsuyama, Y., & Cassell, J. (2018). Socially-conditioned task reasoning for a virtual tutoring agent. In *Proceedings of the 17th International Conference of Autonomous Agents and Multi-Agent Systems.*

[C5] **Madaio, M.**, Peng, K., Ogan, A., & Cassell, J. (2018). A climate of support: a process-oriented analysis of the impact of rapport on peer tutoring. In *Proceedings of the 12th International Conference of the Learning Sciences (*ICLS*).* **Best Paper Award (top 1% of submissions), Best Student Paper Nominee**

[C4] Yu, H., Gui, L., **Madaio, M.**, Ogan, A., Cassell, J., & Morency, L. P. (2017). Temporally selective attention model for social and affective state recognition in multimedia content. In *Proceedings of the 25th ACM SIGMM Multimedia Conference.*

[C3] **Madaio, M.**, Lasko, R., Ogan, A., & Cassell, J. (2017). Using Temporal Association Rule Mining to Predict Dyadic Rapport in Peer Tutoring. In *Proceedings of the 10th International Conference on Educational Data Mining.*

[C2] **Madaio, M.**, Cassell, J., & Ogan, A. (2017). The impact of peer tutors' use of indirect feedback and instructions. In *Proceedings of the 12th International Conference on Computer-Supported Collaborative Learning (*CSCL*),* June, 2017. **Best Student Paper Award (top 1% of submissions)**

[C1] **Madaio, M.**, Chen, S.T., Haimson, O.L., Zhang, W., Cheng, X., Hinds-Aldrich, M., Chau, D.H. & Dilkina, B. (2016). Firebird: Predicting fire risk and prioritizing fire inspections in Atlanta. In *Proceedings of the 22nd SIGKDD International Conference on Knowledge Discovery and Data Mining.* [12% acceptance rate] **Best Student Paper Runner-Up (top 5% of submissions)**

JOURNAL PUBLICATIONS (STRINGENTLY PEER-REVIEWED)

[J4]   Weerts, H., Dudík, M., Edgar, R., Jalali, A., Lutz, R., & **Madaio, M**. (2023). Fairlearn: Assessing and improving fairness of AI systems. Journal of Machine Learning Research, 24(257), 1-8. https://fairlearn.org/

[J3]   Kizilcec, R. F., Chen, M., Jasińska, K. K., **Madaio, M**., & Ogan, A. (2021). Mobile Learning During School Disruptions in Sub-Saharan Africa. *AERA Open*, 7.

[J2]   Baker, R. S., Walker, E., Ogan, A., & **Madaio, M**. (2020). Culture in computer-based learning systems: challenges and opportunities. In *Computer-Based Learning in Context, 1*(1), 1-13. 2019.

[J1]   **Madaio, M**., Cassell, J., & Ogan, A. (2017). "I think you just got mixed up": confident peer tutors hedge to support partners' face needs. *International Journal of Computer-Supported Collaborative Learning*, 12(4), 401-421.

WORKSHOPS, TUTORIALS, AND SPECIAL INTEREST GROUPS ORGANIZED (PEER REVIEWED)

[T10]   Brubaker, J. R., Fiesler, C., **Madaio, M**., Tang, J., & Wong, R. Y. (2024). Generative AI Going Awry: Enabling Designers to Proactively Avoid It in CSCW Applications. In *Companion Publication of the 2024 Conference on Computer Supported Cooperative Work and Social Computing* (pp. 125-127).

[T9]   Deng, W. H., Berman, G., Kaur, H., Schwartz, R., Ibrahim, M. A., Eslami, M., Holstein, K., & **Madaio, M.** (2024). Collaboratively Designing and Evaluating Responsible AI Interventions. In *Companion Publication of the 2024 Conference on Computer-Supported Cooperative Work and Social Computing* (pp. 658-662).

[T8]   Qadri, R., Bennett, C., Davani, A., Denton, R., Dev, S., Diaz, M., **Madaio, M**., & Shelby, R. (2024). Not Just Metrics: Qualitative Evaluations for Geo-Cultural Representation in Generative AI Technologies. Tutorial organized at the *2024 ACM Conference on Fairness, Accountability, and Transparency (FAccT)*.

[T7]   Blodgett, S.L., Curry, A.C., Dev, S., **Madaio, M.**, Nenkova, A., Xiao, Z., and Yang, D., (2024). Proceedings of the Third Workshop on Bridging Human–Computer Interaction and Natural Language Processing. Hosted at the *2024 North American Association for Computational Linguistics (NAACL)*.

[T6]   Constantinides, M., Tahaei, M., Quercia, D., Stumpf, S., **Madaio, M**., Kennedy, S., ... & Pistilli, G. (2024). Implications of Regulations on the Use of AI and Generative AI for Human-Centered Responsible Artificial Intelligence. Special Interest Group at the 2024 ACM CHI Conference. In *Extended Abstracts of the CHI Conference on Human Factors in Computing Systems* (pp. 1-4).

[T5] Tahaei, M., Constantinides, M., Quercia, D., Kennedy, S., Muller, M., Stumpf, S., **Madaio, M**... & Olteanu, A. (2023). Human-Centered Responsible Artificial Intelligence: Current & Future Trends. Special Interest Group at the 2023 ACM CHI Conference. In *Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems* (pp. 1-4).

[T4] Blodgett, S.L., Daumé III, H., **Madaio, M**., Nenkova, A., O'Connor, B., Wallach, H. and Yang, Q., (2022). Proceedings of the Second Workshop on Bridging Human–Computer Interaction and Natural Language Processing. Hosted at the *2022 North American Association for Computational Linguistics (NAACL)*.

[T3] Gandhi, T., Nandi, M., Dudik, M., Wallach, H., **Madaio, M**., Weerts, H., Jalali, A., Ibanez, I. (2021). Fairness in AI Systems: From Social Context to Practice using Fairlearn. Tutorial presented at the *2021 SciPy Virtual Conference*.

[T2] Blodgett, S.L., **Madaio, M**., O'Connor, B., Wallach, H. and Yang, Q., (2021). Proceedings of the First Workshop on Bridging Human–Computer Interaction and Natural Language Processing. Hosted at the *2021 European Association for Computational Linguistics (EACL)*.

[T1] Cassell, J., Scassellati, B., **Madaio, M**., & Brawer, J. (2018). Bridging the Gap: An NSF Workshop on Conversational Agents and Human-Robot Interaction. *NSF Cyber-Human Systems (CHS), Robust Intelligence, National Robotics Initiative*.

BOOK CHAPTERS (PEER REVIEWED)

[B2] **Madaio, M**., Blodgett, S. L., Mayfield, E., & Dixon-Román, E. (2022). Beyond "Fairness": Structural Injustice Lenses On AI for Education. Invited chapter in *The Ethics of Artificial Intelligence in Education: Current Challenges, Practices and Debates*, W. Holmes and K. Porayska-Pomsta (Eds.), Routledge.

[B1] **Madaio, M**., & Martin, S.E. (2020). Who Owns the Smart City? Towards an Ethical Framework for Civic AI. Invited chapter in *Ethics in design and communication: Critical perspectives*. Scherling, L., & DeRosa, A. (Eds.), Bloomsbury Publishing.

WORKSHOP PAPERS AND SHORT PAPERS (LIGHTLY PEER-REVIEWED)

[W14] Delgado, F., Yang, S., **Madaio, M**., Yang, Q. (2021). Stakeholder Participation in AI: Beyond "Add Diverse Stakeholders and Stir". Accepted to the *Human-Centered AI Workshop at NeurIPS 2021*.

[W13] **Madaio, M**., Egede, L., Subramonyam, H., Wortman Vaughan, J, and Wallach, H. (2021). Assessing Fairness in Practice: AI Teams' Processes, Challenges, and Needs for Support. Accepted to the *Human-Centered AI Workshop at NeurIPS 2021*.

[W12] **Madaio, M.**, Stark, L., Wortman Vaughan, J., Wallach, H. (2020). Prompting Conversations about Fairness in AI Design with Checklists. Presented at the *Workshop on Ethics in Design at the 2020 CSCW Conference.*

[W11] **Madaio, M.**, Stark, L., Wortman Vaughan, J., Wallach, H. (2020). Need for Organizational Performance Metrics to Support Fairness in AI. Presented at the *Workshop on Fair and Responsible AI at the 2020 CHI Conference.*

[W10] Black, E., Williams, J., **Madaio, M.**, & Donti, P. (2020). A Call for Universities to Develop Requirements for Community Engagement in AI Research. Presented at the *Workshop on Fair and Responsible AI at the 2020 CHI Conference.*

[W9] Mayfield, E., **Madaio, M.**, Prabhumoye, S., Gerritsen, D., McLaughlin, B., Dixon-Román, E., & Black, A. W. (2019). Equity beyond bias in language technologies for education. In *Proceedings of the Fourteenth Workshop on Innovative Use of NLP for Building Educational Applications* (pp. 444-460).

[W8] Cannanure, V.K., **Madaio, M.**, Ogan, A., & Brown, T. (2019). Using Graphical Models to Understand Usage of an Educational Interactive Voice Response System. At the *ACM Conference on Computing and Sustainable Societies.*

[W7] **Madaio, M.**, & Ogan, A. (2019). Design Opportunities for AI in Education to Support Parents Learning Literacy. Presented at the *Supporting Lifelong Learning Workshop* at *Artificial Intelligence in Education* (AIED).

[W6] Lee, J., Lin, Y., & **Madaio, M**. (2018). A Longitudinal Evaluation of a Deployed Fire Risk Model. Poster presented at the *AI for Social Good Workshop* at the *32nd Neural Information Processing Systems Conference (NeurIPS).*

[W5] **Madaio, M.**, & Ogan, A. (2018). Supporting Parent-Child Literacy Interactions with Feature Phones in Côte d'Ivoire. In the *HCI Across Borders Symposium at the 2018 ACM SIGCHI Conference on Human Factors in Computing Systems.*

[W4] **Madaio, M.**, Ogan, A., & Cassell, J. (2016). The Effect of Friendship and Tutoring Roles on Reciprocal Peer Tutoring Strategies. Presented at the *International Conference on Intelligent Tutoring Systems (*ITS*)* (pp. 423-429).

[W3] **Madaio, M.**, Chen, S.T., Haimson, O.L., Zhang, W., Cheng, X., Hinds-Aldrich, M., Chau, D.H. & Dilkina, B. (2015). Identifying and Prioritizing Fire Inspections: A Case Study of Predicting Fire Risk in Atlanta. Presented at the *Bloomberg Data for Good Exchange.*

[W2] **Madaio, M. A.**, Grinter, R. E., & Zegura, E. W. (2016). Experiences with MOOCs in a West-African technology hub. In *Proceedings of the Eighth International Conference on Information and Communication Technologies and Development.*

[W1] Zegura, E. W., **Madaio, M. A.**, & Grinter, R. E. (2015). Beyond bootstrapping: the Liberian iLab as a maturing community of practice. In *Proceedings of the Seventh International Conference on Information and Communication Technologies and Development* (pp. 1-4).

REGULATORY FILINGS

[R1] Baker, P.M.A., **Madaio, M**. (2014). Comments filed in response to the Office of Science and Technology Policy's Notice of Request for Information (RFI) requesting public comments to inform its policy development related to high-impact learning technologies. *Federal Register*, Vol. 79 (8).

INVITED TALKS AND PANELS

[I27] **Invited Panelist**   April, 2025
American Education Research Association
Symposium on Learning with AI

[I26] **Invited Panelist**   March, 2025
ACM Webinar
Ethical and Societal Impacts of Generative AI on Higher Education

[I25] **Invited Panelist**   February, 2025
Trustworthy AI in Law and Society Conference; George Washington University
AI as Work: Expanding Participation in AI Design, Development and Evaluation

[I24] **Invited Speaker**   December, 2024
HCI Seminar on People, Computers and Design; Stanford University
Responsible AI (h)as a Learning and Design Problem

[I23] **Invited Speaker**   November, 2024
Seminar Series, Dept. of Technology Management and Innovation; NYU
Responsible AI (h)as a Learning and Design Problem

[I22] **Invited Speaker**   July, 2024
HCII Seminar Series; Carnegie Mellon University
Responsible AI (h)as a Learning and Design Problem

[I21] **Invited Speaker**   July, 2024
IDEAS Summer Program; The Ethics Institute, Northeastern University
From What to How: Fostering Responsible AI in Practice

[I20] **Invited Speaker**   April, 2024
Build with AI Days; Pace University
Best Practices for Responsible AI Development

[I19] **Invited Panelist** February, 2024
Workshop on AI for Education; AAAI 2024 Conference
Centering Equity in AI4ED: Opportunities and challenges

[I18] **Invited Panelist** February, 2024
Canadian Council of College Futures
Building Responsible AI Ecosystems in Higher Education

[I17] **Invited Panelist** February, 2024
Sociotechnical Collaboration Task Force; CRA Computing Community
Consortium
Interdisciplinary Best Practices in Computer Science

[I16] **Invited Speaker** January, 2024
Participatory AI Seminar Series; Data & Society
The Participatory Turn in AI Design: Theoretical Foundations and the Current
State of Practice

[I15] **Invited Panelist** October, 2023
Accessible Technology Conference; New York Public Library
Intro to Generative AI: Capabilities and Limitations

[I14] **Invited Panelist** September, 2023
National Association of Science Writers Conference
Artificial Intelligence Tools: Promises, Prompts, and Pitfalls

[I13] **Invited Panelist** June, 2023
Out in Tech NYC
Embracing Responsible & Inclusive Innovation

[I12] **Invited Speaker** February, 2023
Queer in AI Workshop; AAAI 2023 Conference
Queering Epistemic Identities in Interdisciplinary AI Research.

[I11] **Invited Panelist** May, 2022
Conference on Computers, Privacy, and Data Protection; Brussels, Belgium
Research & best practices to address socio-technical risks in AI systems.

[I10] **Invited Speaker** April, 2022
School of Interactive Computing, Georgia Tech
Towards human-centered design of fair and responsible AI.

[I9] **Invited Speaker** February, 2022
Center for Information Technology Policy, Princeton University
Towards human-centered design of fair and responsible AI.

[I8] **Invited Speaker** January, 2022

Nokia Bell Labs
Human-centered approaches to supporting AI fairness in practice.

[I7] **Invited Speaker** July, 2021
HCI International Conference
Human-centered approaches to supporting AI fairness in practice.

[I6] **Invited Speaker** July, 2020
Third Space Group, University of Toronto
Collective support and independent learning with a voice-based literacy
technology in rural communities.

[I5] **Invited Speaker** April, 2020
GroupLens Group, University of Minnesota
Co-designing checklists to understand organizational challenges and
opportunities around fairness in AI.

[I4] **Invited Speaker** August, 2020
Innovating Education in Africa Expo
Harnessing the Capacity of ICT to ensure Inclusion, Quality, and Impact in
Education and Training in Africa.

[I3] **IAALDE Best Paper Encore Talk** July, 2019
AI in Education Conference
A climate of support: A temporal analysis of the role of rapport in learning.

[I2] **Keynote Speaker** October, 2018
Forward with Google for Education
Using machine learning to understand social dimensions of learning.

[I1] **Invited Panelist** July, 2018
Google Cloud NEXT
Using machine learning to understand social dimensions of learning.

GRANTS

[G3] **Putting Data to Work: Supporting Workforce Development.** Awarded
Metro21 Smart Cities Institute **$42,968**
with Kenneth Holstein (co-PI) 2018-2020

[G2] **Bridging the Gap: An NSF Workshop on Conversational Agents
and Human-Robot Interaction** Awarded
NSF Cyber-Human Systems, Robust Intelligence,
National Robotics Initiative. **$49,869**
with Justine Cassell, Brian Scassellatti, and Jake Brawer 2018

[G1]	**Using Spatio-Temporal Machine Learning to Inform Fire Risk Reduction** *Metro21 Smart Cities Institute*	Awarded **$17,600** 2017

FELLOWSHIPS AND TRAVEL AWARDS

[F6]	**Siebel Scholar Fellowship** Siebel Scholars Foundation	**$35,000** 2019-2020
[F5]	**Educational Data Mining Conference Travel Award** International Education Data Mining Society	**$1,500** 2017
[F4]	**Investigating the Role of Rapport in Learning** Collaborative Research Experience for Undergraduates (CREU)	**$9,000** 2017
[F3]	**ACM SIGKDD Conference Student Travel Award** Association for Computing Machinery	**$750** 2016
[F2]	**Fellowship in Interdisciplinary Education Research** Institute for Education Sciences, Department of Education	**$127,500** 2015-2018
[F1]	**Technology Design Workshop Student Travel Award** National University of Singapore, CUTE Center	**$1,200** 2015

POLICY CITATIONS

[P10]   **Federation of American Scientists**. Expanding Local Government Capacity for AI Procurement and Use. 2025.

[P9]   **Department for Science, Innovation and Technology, AI Safety Institute**. International AI Safety Report. 2025.

[P8]   **International Panel on the Information Environment**. Towards A Global AI Auditing Framework: Assessment and Recommendations. 2025.

[P7]   **Department for Science, Innovation and Technology, AI Safety Institute**. International Scientific Report on the Safety of Advanced AI. 2024.

[P6]   **Brookings Institution**. How the ONC (Office of the National Coordinator for Health Information Technology) can strengthen its HTI-1 rule to ensure transparency, fairness, and equity in AI. 2024.

[P5]   **UNESCO Institute for Lifelong Learning**. Artificial intelligence, blockchain and extended reality in lifelong learning. 2024.

[P4]   **OECD Digital Education Outlook**. Perspectives de l'OCDE sur l'éducation numérique. 2023.

[P3]   **Publications Office of the EU Joint Research Centre (European Commission)**. Artificial intelligence for healthcare and well-being during exceptional times. 2023.

[P2]   **Government Publishing Office**. Final report of the National Security Commission on Artificial Intelligence. 2021.

[P1]   **House Committee Task Force on Artificial Intelligence**. Task Force on Artificial Intelligence: Beyond I, Robot: Ethics, Artificial Intelligence, and the Digital Age. 2021.

SELECTED PRESS AND MEDIA

Georgia Tech News Center. New Tool Teaches Responsible AI Practices When Using Large Language Models. 2025.

New York Times. Microsoft Plans to Eliminate Face Analysis Tools in Push for 'Responsible A.I.' 2022.

Human-Centered AI Institute. AI in Education: Augmenting Teachers, Scaling Workplace Training. 2021.

Radical AI Podcast. Checklists and Principles and Values, Oh My! Practices for Co-Designing Ethical Technologies with Michael Madaio. 2020.

Microsoft Research Blog. Fairness and interpretability in AI: Putting people first. 2020.

VentureBeat. Microsoft researchers create AI ethics checklist with ML practitioners from a dozen tech companies. 2020.

EY Canada. Assessing and mitigating unfairness in credit models. 2020.

Futurum Group. Microsoft Research AI Ethics Checklist Crafts Principles for Designing AI DevOps Processes. 2020.

Technical.ly. How to build a civic tech community, according to Pittsburgh leaders. 2018.

CBS Pittsburgh. Data Tool Created By CMU Student Helps Predict Fire-Prone Buildings In Pittsburgh. 2018.

GovTech. Pittsburgh Uses Data to Predict Fire Risk. 2018.

WESA News. AI Helps City Protect Buildings At High Risk For Fire. 2018

Pittsburgh Post-Gazette. Where's the fire? This data approach is helping Pittsburgh pinpoint buildings at risk. 2018.

National Fire Protection Association Journal. Embracing Analytics: How Communities Around the Country are Utilizing Data Analytics to Predict a Host of Risk Factors and Reduce Fires. 2016.

Georgia Tech College of Computing. When Computing Equals Social Good. 2015.

STUDENT ADVISING AND MENTORING
PhD DISSERTATION COMMITTEES
Dr. Jaemarie Solyst, "Empowering Diverse Youth in the Future of Artificial Intelligence".
 Human-Computer Interaction Institute, Carnegie Mellon University, 2025.

Dr. Jessie J. Smith, "Measuring the Immeasurable: Perspectives on Best Practices When Operationalizing Machine Learning Fairness for Recommender Systems".
 Department of Information Science, University of Colorado Boulder, 2025.

Angie Zhang, "Designing Human-Centered AI: Centering Impacted Stakeholder Experiences to Inform AI Design Through Data Contextualization".
 School of Information, University of Texas at Austin, TBD.

MASTERS RESEARCH ASSISTANTS SUPERVISED
Mohammed Alburaiki, Masters in Educational Technology and Learning Science
Connie Chau, Masters in Human-Computer Interaction*
Carolina Arroyo Hernandez, Masters in Public Policy and Management, Data Analytics
Qianyi Hu, Masters in Information Systems Management, Carnegie Mellon University
Sara Jackson, Masters in Public Policy and Management, Data Analytics
Yanwen Lin, Masters in Civil and Environmental Engineering, Carnegie Mellon University
Bhavkaran Singh, Masters in Information Systems Management, Carnegie Mellon University
Xiaoyi Tian, Masters in Information Science, University of Pittsburgh

UNDERGRADUATE SENIOR THESES ADVISED
Rishabh Chatterjee, B.S. Computer Science, Carnegie Mellon University
Lauren Trichtinger, B.S. Psychology, Chatham University

UNDERGRADUATE INDEPENDENT STUDY OR REU STUDENTS ADVISED
Michelina Astle, B.S. Psychology, Chatham University
Jake Beley, B.S. Computer Science, Dickinson College
Naomi Eigbe, B.S. Psychology and Computer Science, Rice University
Lisa Egede, B.S. Computer Science, University of Oklahoma
Alvaro Granados, B.S. Neuroscience, University of Pittsburgh
Robert Huerbin, B.S. Psychology, University of Pittsburgh
Rae Lasko, B.S. Cognitive Science, Carnegie Mellon University
Jessica Lee, B.S. Computer Science, Carnegie Mellon University

William Liu, B.S. Cognitive Science, Carnegie Mellon University
Kun Peng, B.S. Statistics and Machine Learning
Shelby Zasacky, B.S. Mathematical Sciences and Art
Zian Zhao, B.S. Information Engineering, Shanghai Jiao Tong University

TEACHING EXPERIENCE

GUEST LECTURES

Design of AI Products & Services in Industry, Cornell University	Spring, 2025
Empowering Educators via Language Technology, Stanford University	Fall, 2023
Human-Centered AI, University of California, Berkeley	Spring, 2023
Machine Learning-Operated Systems, Northwestern University	Fall 2020
Psychology Research Design and Analysis, Swarthmore College	Fall 2020

TEACHING ASSISTANTSHIPS

Designing Human-Centered Systems, Carnegie Mellon University	2020
User-Centered Research and Evaluation, Carnegie Mellon University	2017
Introduction to Computational Media, Georgia Institute of Technology	2013

INSTRUCTOR

English Language and Literature, John F. Kennedy High School, MD	2009-2013

ACADEMIC SERVICE

ADVISORY ROLES

Advisory Board, NaiKruah Analytics, Liberia	2025
Sponsor, Google Academic Research Awards	2025
Advisor, High-Risk EU AI Act Toolkit, University of Cambridge	2024
Sponsor, Award for Inclusion, Google.Org Education for Social Impact	2023-2024
DEI Advisory Board, OpenStax	2022-2024
Maintainer, Fairlearn Toolkit	2020-present

ASSOCIATE CHAIR

ACM Conference on Computer-Supported Collaborative Work (CSCW)	2021-2024
ACM Conference on Human Factors in Computing Systems (CHI)	2021-2025
ACM Conference on Fairness, Accountability, and Transparency (FAccT)	2024-2025
ACL Empirical Methods in Natural Language Processing (EMNLP)	2023, 2025
ACM SIGCHI Late-Breaking Work	2020

CONFERENCE ORGANIZING

Virtual Chair, ACM FAccT Conference	2023

PROGRAM COMMITTEE (PC) MEMBER

ACM Conference on Fairness, Accountability, and Transparency (FAccT)	2021-2024
IEEE AI, Ethics, and Society (AIES)	2024
Human-Centered AI Workshop at NeurIPS 2022	
International Conference on Artificial Intelligence in Education (AIED)	2020
Human-Centered Explainable AI Workshop at CHI 2021	2021
Workshop on AI in Education at AAAI 2021	2021

Reviewing

Communications of the ACM (CACM)	2023
ACM Conference on Human Factors in Computing Systems (CHI)	2016-2024
ACM Conference on Computer-Supported Collaborative Work (CSCW)	2024
Conference on Neural Information Processing Systems (NeurIPS)	2022-2024
ACM Conference on Interaction Design and Children (IDC)	2020
ACM Conference on Designing Interactive Systems (DIS)	2020
International Journal of Human-Computer Interaction	2022-2024
International Conference on Artificial Intelligence in Education	2017-2020
International Journal of AI in Education	2018-2020
ACM Transactions of Computer-Human Interaction (ToCHI)	2020-2021
Journal of Educational Data Mining	2018
Journal of Data and Policy	2023

PRIOR RESEARCH POSITIONS

Microsoft Research, New York, NY   2019
Fairness, Accountability, Transparency, and Ethics Research Group
Research Intern (with Hanna Wallach and Jenn Wortman Vaughan)

United Nations University, Macau SAR, China   2018
Institute on Computing and Society
Visiting Research Assistant (with Araba Sey)

Data Science for Social Good, Atlanta   2015
Georgia Institute of Technology, Atlanta, Georgia
Graduate Research Assistant (with Polo Chau and Bistra Dilkina)