408-893-1312	Wesley Hanwen Deng hanwend@cs.cmu.edu	
Research Interests	Responsible AI; Human-AI Interaction; Algorithm Auditing; Organizational Science; Crowdsourcing; Social Computing; Fairness, Accountability, and Transparency.	
Education	Carnegie Mellon University, Pittsburgh, PAPh.D. in Human-Computer Interaction, School of Computer Science2021 - nowAdvisors: Ken Holstein & Motahhare Eslami.	
	University of California, Berkeley, Berkeley, CAB.A. in Computer ScienceHighest Distinction & EECS Research HonorResearch Advisors: Niloufar Salehi & Kimiko Ryokai.	
Conference Publications Stringently	[P10] Wesley H. Deng, Solon Barocas <sup>*</sup> , Jennifer Wortman Vaughan <sup>*</sup> . (2024). Sup porting Industry Computing Researchers in Assessing, Articulating, and Addressing the Potential Negative Societal Impact of Their Work. <i>Under Review</i>	
Peer-reviewed	[P9] Jordan Taylor, <b>Wesley H. Deng</b> , Ken Holstein, Sarah Fox, Haiyi Zhu. (2024) Unmaking Marginality. Under Revision	
	[P8] Sara Kingsley <sup>*</sup> , Jiayin Zhi <sup>*</sup> , <b>Wesley H. Deng</b> , Jaimie Lee, Sizhe Zhang, Motah hare Eslami <sup>*</sup> , Kenneth Holstein <sup>*</sup> , Joson I. Hong <sup>*</sup> , Tianshi Li <sup>*</sup> , Hong Shen <sup>*</sup> . (2024) Investigating What Factors Influence Users' Detection of Harmful Algorithmic Bias and Discrimination. <i>Under Revision</i>	
	[P7] Wesley H. Deng, Nur Yildirim, Monica Chang, Motahhare Eslami, Ken Holstein, Michael Madaio. (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 (FAccT '23).	
	[P6] Wesley H. Deng, Boyuan Bill Guo, Alicia DeVrio, Hong Shen, Motahhare Es lami <sup>*</sup> , Ken Holstein <sup>*</sup> . (2023). Understanding Practices, Challenges, and Opportunities for User-Engaged Algorithm Auditing in Industry Practice. <i>in Proceedings of the ACM CHI Conference on Human Factors in Computing Systems (CHI'23)</i> .	
	[P5] Wesley H. Deng, Manish Nagireddy, Michelle Seng Ah Lee, Jatinder Singh Zhiwei Steven Wu, Kenneth Holstein, Haiyi Zhu. (2022). Exploring How Machine Learning Practitioners (Try To) Use Fairness Toolkits. In Proceedings of the 2022 ACM Conference on Fairness, Accountability, and Transparency (FAccT '22)	
	[P4] Hong Shen, Leijie Wang, <b>Wesley H. Deng</b> , Ciell, Ronald Velgersdijk, Haiy Zhu. (2022). The Model Card Authoring Toolkit: Towards Community-centered Deliberation-driven AI Design. In Proceedings of the 2022 ACM Conference on Fair ness, Accountability, and Transparency (FAccT '22)	
	[P3] Dan Liebling, Katherine Heller, Samantha Roberston, Wesley H. Deng. (2022) Opportunities for Human-centered Evaluation of Machine Translation Systems In Pro ceedings of the 2022 North American Chapter of the Association for Computationa Linguistics (NAACL '22)	
	[P2] Hong Shen, <b>Wesley H. Deng</b> , Aditi Chattopadhyay, Steven Wu, Xu Wang, Haiy Zhu. (2021). Value Cards: An Educational Toolkit for Teaching Social Impacts of Machine Learning through Deliberation. In Proceedings of the 2021 ACM Conference	

Machine Learning through Deliberation. In Proceedings of the 2021 ACM Conference

on Fairness, Accountability, and Transparency (FAccT '21)

[P1] Jon Gillick, Wesley H. Deng, Kimiko Ryokai, David Bamman. Robust Laughter Detection in Noisy Environments. (2021) In Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP '21)

Workshop [WP] Wesley H. Deng<sup>\*</sup>, Michael A. Feffer<sup>\*</sup>, Anusha Sinha<sup>\*</sup>, Hoda Heidari (2024). Publications & An Executive Summary of Comments Submitted to NIST in Response to RFI 88368. White Paper White paper for National Institute of Standards and Technology [WP6] Wesley H. Deng (2024). Organizing Crowd Audits to Detect Bias in Machine Learning. NSF Fairness in AI PI Meeting; 2024 [WP5] Wesley H. Deng, Motahhare Eslami, Kenneth Holstein. (2023) Towards "Anytime, Anywhere" Community Learning and Engagement around the Design of Public Sector AI. Workshop on AI Literacy: Finding Common Threads between Education. Design, Policy, and Explainability; CHI 2023 [WP4] Wesley H. Deng, Nikita Mehandru, Samantha Roberston, Niloufar Salehi. (2022) Beyond General Purpose Machine Translation: The Need for Context-specific Empirical Research to Design for Appropriate User Trust. Workshop on Trust and Reliance in AI-Human Teams; CHI 2022 [WP3] Wesley H. Deng, Manish Narigeddy, Zhiwei Steven Wu, Kenneth Holstein, Haiyi Zhu. (2021) Evaluating Fairness in Practice: Exploring How Machine Learning Practitioners Use Fairness Toolkits. Human-Centered AI Workshop; NeurIPS 2021 [WP2] Samantha Roberston, Wesley H. Deng, Timnit Gebru, Margaret Mitchell, Dan Liebling, Michal Lahav, Katherine Heller, Mark Diaz, Samy Bengio, Niloufar Salehi. (2021) Three Directions for the Design of Human-Centered Machine Translation. 1st HCI + NLP Workshop, NAACL 2021 [WP1]Kimiko Ryokai, Julia Park, Wesley H. Deng. (2020) Personal laughter archives: reflection through visualization and interaction. Adjunct Proceedings of the 2020 ACM International Conference on Ubiquitous Computing (UbiComp 2020) Workshop & [WT03] Ziang Xiao, Wesley H. Deng, Michelle Lam, Motahhare Eslami, Juho Kim, Tutorial Mina Lee, Q. Vera Liao. (2024) Human Centered Evaluation and Auditing of Large Organized Language Models. Workshop at the ACM CHI Conference on Human Factors in Computing Systems (CHI'24) [WT02] Wesley H. Deng, Michelle Lam, Alex Cabrera, Danaë Metaxa, Motahhare Eslami, Ken Holstein. (2023). Supporting User Engagement in Testing, Auditing, and Contesting AI. Workshop at the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW'23). ACM. [WT01] Wesley H. Deng, Shivani Kapania, Ken Holstein, Motahhare Eslami. Panelist: Lauren Wilcox, Su Lin Blodgett, Danaë Metaxa, Nicholas Diakopoulos, Karrie Karahalios, Shubhanshu Mishra, Christo Wilson (2023). User Engagement in Algorithm Testing and Auditing: Exploring Opportunities and Tensions between Practitioners and End Users. Critiquing and Rethinking Fairness, Accountability, and Transparency (CRAFT) session at the 2023 ACM Conference on Fairness. Accountability. and Transparency (FAccT '23) **Grant Writing** [G4] Bridging Between Regulation and On-the-Ground Practice in Responsible AI Awarded (\$45,000); MSR AI & Society Challenge Co-written with Ken Holstein, Motahhare Eslami, and Jason Hong.

	<ul> <li>[G3] Generative AI Meets Responsible AI: Supporting User-Driven Algorith of Generative AI Systems</li> <li>Submitted; AWS Amazon Research Awards</li> <li>Co-written with Motahhare Eslami, Ken Holstein, Jason Hong.</li> </ul>	m Auditing
	<ul> <li>[G2] Scaffolding Responsible AI Practice at the Earliest Stages of Ideation</li> <li>Formulation and Project Selection</li> <li>Awarded (\$350,193); PwC</li> <li>Co-written with Ken Holstein, Motahhare Eslami, Jodi Forlizzi, Hoda Heiden tian Kaestner, Haiyi Zhu, and John Zimmerman</li> </ul>	
	[G1] Public AI Engagement through Public Installation and Display Not recommended for funding; <i>Remaking Learning Moonshot Grant Propo</i> <i>Co-written with Ken Holstein, Motahhare Eslami</i>	sal
Honor and Awards	MSR AI & Society Fellow \$45,000, Microsoft Research Awarded for "eminent scholars and leading experts in various fields to research challenges [on] 'Regulating AI in Light of the Challenges of Doing AI in Practice' with Microsoft researchers."	
	AI Ethics & Society Workshop Invited Participants \$500, Allen Institute for AI Honorarium for attending ethics and society workshop hosted by Allen Insti Receiving part-time internship offer after the workshop.	2023 itute for AI.
	<b>Special Recognitions for Outstanding Reviews</b> CHI Conference on Human Factors in Computing Systems (CHI)	2023
	<b>CMU Graduate Student Travel Grant</b> , \$750, Carnegie Mellon University	2022
	<b>CERES (Connecting the EdTech Research EcoSystem) Fellowshi</b> through Jacobs Foundation, Carnegie Mellon University Awarded for "bringing together global leaders in computer science, psychol science, education and the educational technology (EdTech) industry so of nologies can be better tailored to children."	2021 logy, neuro-
	<b>Special Recognitions for Outstanding Reviews</b> Computer-Supported Cooperative Work and Social Computing (CSCW)	2021
	<b>EECS Undergraduate Research Honor</b> Electrical Engineering and Computer Science, UC Berkeley Award for "very talented undergraduate students interested in undergradua Honors students pursue an academic concentration outside of the departm in research, receive a special faculty advisor, and are invited to special faculty and EECS Honors alumni."	ent, engage
	<b>Highest Distinction</b> , School of Letter and Science, UC Berkeley General Scholarship at Graduation award for undergraduate students with 3.986 or above. Equivalent to Summa Cum Laude.	2020 h a GPA of
	<b>Dean's List</b> , School of Letter and Science, UC Berkeley 2018, Awarded for undergraduate students with a semester GPA in the top 10% graduates in the School of Letter and Science	2019, 2020 % of under-
	<b>First Price</b> for Chinese National Physics Olympiad (60/22,000)	2015

Research Experience	AllenNLP, Allen Institute for AIFall 2023 - nowResearch Assistant (Research Intern offer deferred due to Visa constraint)Research supervisor: Jesse Dodge & Nicole DeCarioResearch Topics: Responsible AI, Generative AI, Impact Assessment		
	<b>FATE</b> , <i>Microsoft Research</i> Research Intern Research supervisors: Jenn Wortman Vaughan & Solon Baroca Research Topics: Responsible AI, Impact Assessment.	Summer 2023	
	<b>4A Lab</b> , <i>Carnegie Mellon University</i> Ph.D. Student Research supervisors: Motahhare Eslami Research Topics: Responsible AI ([P7], [P8]), Algorithm Audit	Summer 2021 - now ing [P7]	
	<b>CoALA Lab</b> , <i>Carnegie Mellon University</i> Pre-Doctoral Research Assistant & Ph.D. Student Research supervisors: Ken Holstein Research Topics: Responsible AI ([WP3], [P5], [P7], [P8]), Alg	Fall 2020 - now orithm Auditing ([P7])	
	Social AI Group, Carnegie Mellon University Pre-Doctoral Research Assistant Research supervisors: Haiyi Zhu and Steven Wu Research Topics: Responsible AI ([P2], [P4], [P5]), ML Faire Social Computing [P6]	Fall 2020 - Fall 2021 ness ( $[WP3]$ , $[P5]$ ) and	
	<b>To3 Group</b> , University of California, Berkeley & Google Ethical AI, Google Undergraduate Research Assistant Research supervisors: Niloufar Salehi Research Topics: Responsible AI for Machine Translation ([Wi	Fall 2019 - Fall 2020 P2], [WP4], [P3])	
	<b>BioSENSE Lab</b> , University of California, Berkeley Undergraduate Research Assistant Research supervisors: Kimiko Ryokai and David Bamman Research Topics: Design [WP1] and Ubiquitous computing ([W	Fall 2018 - Fall 2020 WP1], [P1])	
Invited Talk and Panelist			
	Invited talk at TikTok, NYC	03/2023 (forthcoming)	
	Invited talk at Capital One, Data Science Team	07/2023	
	Invited talk at TU Delft, Faculty of Industrial Design Engineer	ring 05/2023	
	Invited talk at TU Delft, Faculty of Electrical Engineering, Mathematics and Computer Science, Delft University of Technology 05/2023		
	Understanding Practices, Challenges, and Opportunities for User-Engaged Algorithm Auditing in Industry Practice		
	Invited talk at University of California, Berkeley, Algorithmic (AFOG) Group	c Fairness and Opacity $10/2022$	
	Exploring How ML Practitioners (Try To) Use Fairnes	s Toolkits	

Exploring How ML Practitioners (Try To) Use Fairness Toolkits

	Invited talk at PwC AI Governance Group	03/2022
	Invited talk at Google PAIR	08/2022
	Invited talk at IBM AIF360 developer team monthly meeting	07/2022
	Invited talk at Fairlearn developer team meeting	03/2021
	Other talks and panels	
	Invited panelist, "Flavor of HCI" hosted by Carnegie Mellon University, User Experience Association	11/2022
	Invited speaker, "Applying for Ph.D. programs in Human-Computer Interact hosted by UC Berkeley, Chinese Student Association	tion" 07/2022
	Invited panelist, Graduate School Application Panel, hosted by Carnegie Mellon University, REU Summer Program in HCII	06/2022
	Invited presenter, Design Innovation Lecture Series, hosted by UC Berkeley, Jacobs Institute for Design Innovation	08/2022
	Invited panelist, EECS Research Honor program panel, hosted by UC Berkeley, EECS Honor program	03/2021
	Invited presenter, Designing Emergent Technology, hosted by UC Berkeley, Jacobs Institute for Design Innovation	12/2019
Selected Press	12/2023, World Privacy Forum, Risky Analysis: Assessing and Improving ernance Tools. An international review of AI Governance Tools and sugges pathways forward	
	07/2023, Center for Advancing Safety of Machine Intelligence, AI ethic at Chicago conference, precursor to CASMI's next workshop.	cs debate
	06/2023, Queer in AI, 3 things that AI ethics toolkits get wrong.	
	12/2022, <b>WIRED</b> , ChatGPT, Galactica, and the Progress Trap: When large models fall short, the consequences can be serious. Why is it so hard to ack that?	
	11/2021, <b>CMU HCII</b> , HCII Researchers To Study Improving Algorithm, C Science Education as Part of CERES Network.	Computer
Academic Service	<b>Program Committee</b> FAccT, Since 2022 Empathy-centric Design at Scale Workshop, CHI 2022	
	Conference Reviewer CHI, since 2021 CSCW, since 2021 EAccT, since 2021	

FAccT, since 2021

AIES, since 2023 ICASSP 2021 TEI 2023

CommunityOrganizer: CMU HCII Ph.D. Student Social Hour2021, 2022, 2023, 2024ServiceOrganize the bi-monthly social event to foster engagement and mutual supports among<br/>HCII Ph.D. students, visiting scholars, and post-doctors.

**Organizer**: CMU HCII Ph.D. & Faculty Off-campus Tea Hour 2023, 2024 Launch and organize semester-wise off-campus tea hours at a local coffee shop, fostering community and collaboration among HCII Ph.D. students and faculty members.

**Organizer**: CMU Ph.D. Student CHI Conference Practice Talk 2022, 2023, 2024 Coordinate the annually event for HCII Ph.D. students to practice their conference talk for the CHI conference on Human Factors in Computing Systems.

**Organizer**: CMU HCII Summer REU and Ph.D. Social Event 2023 Coordinate social event for the REU program, enabling undergraduates to connect with HCII faculty and Ph.D. students, and gain insights into HCI research and doctoral life.

**Organizer:** CMU Responsible AI Initiate Ph.D. Student Gathering 2022 Initiate and coordinate the inaugural CMU Ph.D. student gathering focused on Responsible AI research, promoting cross-campus communication and collaboration among students engaged in this field.

**Organizer:** CMU HCII Ph.D. Junior-Senior Coffee chat 2021 Coordinated the department-supported HCII Ph.D. student coffee chats to foster mutual support and mentorship between junior and senior HCII Ph.D. students.

**Co-organizer:** CMU HCII Department Welcoming Event 2024 Co-organize the HCII department welcoming party for all HCII Ph.D. students, Master students, staffs, and faculty members.

**Co-organizer:** CMU HCII Seminar Speaker Student Host 2021, 2022, 2023, 2024 Support the department to host HCII seminar speakers by organizing the student lunch.

Participant: CMU School of Computer Science Ph.D. Application Assistancefor underrepresented applicants2022, 2023Support 3-5 underrepresented applicants each year to apply for CS Ph.D. program.

**Participant**: Graduate School Application Panel for Summer REU Program 2022 Attending panels for REU students and provide overview and help of PhD application.

**Participants**: CMU HCII Ph.D. Opening House Events 2021, 2022, 2023, 2024 Volunteer for welcoming accepted Ph.D. candidates through various activities.

Research	Howard Han, CMU, Master Student Research Assistant	
Mentorship	Now CMU HCII Ph.D.	Spring $2023$ - Now
	Xiaofeng Yan, CMU, Master Student Research Assistant	t
	Now Columbia University CS Ph.D.	Fall 2022 - Spring 2023
	Jieyu Zhou, CMU, Master Student Research Assistant	
	Now Georgia Tech Interactive Computing Ph.D.	Spring $2022$ - Spring $2023$
	Shixian Xie, CMU, Master Student Research Assistant	
	Now CMU HCII Ph.D.	Summer 2022 - Spring 2023
	Leijie Wang, Tsing-hua University, Undergraduate HCI Research Assistant	
	Now UW CSE Ph.D.	Spring $2021$ - Spring $2022$
	Bill Guo, CMU, Undergraduate HCI Research Assistant	Summer 2021 - Fall 2022

Project	Vicky Zhu, CMU, Undergraduate Independent Study	Spring 2024
Mentorship	Carson Piehl, CMU, Undergraduate Independent Study	Spring 2024
	Yvvone Fang, CMU, Master Student Research Assistant	Spring 2023 - Summer 2023
	Anthony Pan, CMU, Undergraduate Design Project	Fall 2022
	Christy Zo, CMU, Undergraduate Design Project	Fall 2022
	Rebecca Jiang, CMU, Undergraduate HCI Independent	Study Summer 2022
	Vivek Nadig, Valley Christian High School, High School	student Summer 2022
	Andrew Sim, CMU, Master Student Independent Study	Spring 2022
	Harnoor Dhingra, CMU, Master Student Independent S	tudy Spring 2022
	Susan Huang, CMU, Undergraduate HCI Research Assis	tant Fall 2021
	Alice Tran, CMU, Undergraduate HCI Research Assistant	t Fall 2021
Teaching	User Centered Research and Evaluation, 05-710, CMU	Graduate TA; 2023
0	Data Science, Data 100, UC Berkeley	Undergraduate TA; 2020
	Probability Theory, Statistics 134, UC Berkeley	Group Tutor; 2019
	Data Structure, CS 61B, UC Berkeley	Lab Assistant; 2019
	Introduction of Computing, CS 61A, UC Berkeley	Lab Assistant; 2018
	Physics for Engineers, Physics 7A, UC Berkeley	One-on-one Tutor; 2018
Skills	Languages: Python, R, HTML/CSS/JavaScript, C, Java, Machine Learning: PyTorch, TensorFlow, NumPy, Par duce, NLTK, PyData, SciPy. Design: Figma, Miro, Photoshop, Illustrator, Visualizatio	ndas, Scikit-Learn, MapRe-
	<b>G G G G G G G G G G</b>	( - 5-7001 7.0 ).