

Research Interests	Responsible AI; Human-AI Interaction; Algorithm Auditing; Organizational Science; Crowdsourcing; Social Computing; Fairness, Accountability, and Transparency.		
Education	Carnegie Mellon University , Pittsburgh, PA		
	Ph.D. in Human-Computer Interaction, School of Computer Science		2021 - now
	Advisors: Ken Holstein & Motahhare Eslami.		
	University of California, Berkeley , Berkeley, CA		
	B.A. in Computer Science		2017 - 2020
	Highest Distinction & EECS Research Honor		
	Research Advisors: Niloufar Salehi & Kimiko Ryokai.		
Conference Publications <i>Stringently Peer-reviewed</i>	[P10] Wesley H. Deng , Solon Barocas, Jennifer Wortman Vaughan. (2024). Supporting Industry Computing Researchers in Assessing, Articulating, and Addressing the Potential Negative Societal Impact of Their Work. <i>In Preparation</i>		
	[P9] Jordan Taylor, Wesley H. Deng , Ken Holstein, Sarah Fox, Haiyi Zhu. (2024). Unmaking Marginality. <i>Under Revision</i>		
	[P8] Sara Kingsley*, Jiayin Zhi*, Wesley H. Deng , Jaimie Lee, Sizhe Zhang, Motahhare Eslami, Kenneth Holstein, Joon I. Hong, Tianshi Li, Hong Shen. (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. <i>In Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency (FAccT '23)</i>		
	[P6] Wesley H. Deng , Boyuan Bill Guo, Alicia DeVrio, Hong Shen, Motahhare Eslami, Ken Holstein. (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. <i>In Proceedings of the 2022 ACM Conference on Fairness, Accountability, and Transparency (FAccT '22)</i>		
	[P4] Hong Shen, Leijie Wang, Wesley H. Deng , Ciell, Ronald Velgersdijk, Haiyi Zhu. (2022). The Model Card Authoring Toolkit: Towards Community-centered, Deliberation-driven AI Design. <i>In Proceedings of the 2022 ACM Conference on Fairness, Accountability, and Transparency (FAccT '22)</i>		
	[P3] Dan Liebling, Katherine Heller, Samantha Roberston, Wesley H. Deng . (2022). Opportunities for Human-centered Evaluation of Machine Translation Systems <i>In Proceedings of the 2022 North American Chapter of the Association for Computational Linguistics (NAACL '22)</i>		
	[P2] Hong Shen, Wesley H. Deng , Aditi Chattopadhyay, Steven Wu, Xu Wang, Haiyi Zhu. (2021). Value Cards: An Educational Toolkit for Teaching Social Impacts of Machine Learning through Deliberation. <i>In Proceedings of the 2021 ACM Conference</i>		

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
Publications
Lightly
Peer-reviewed**

[WP6] **Wesley H. Deng** (2024). Supporting Responsible AI On-the-ground. *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 &
Tutorial
Organized**

[W03] Ziang Xiao, **Wesley H. Deng**, Michelle Lam, Motahhare Eslami, Juho Kim, Mina Lee, Q. Vera Liao. (2024) Human Centered Evaluation and Auditing of Large Language Models. *Workshop at the ACM CHI Conference on Human Factors in Computing Systems (CHI'24)*

[W02] **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.*

[W01] **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 Submitted; *MSR AI & Society Challenge*
Co-written with Ken Holstein, Motahhare Eslami, and Jason Hong.

[G3] Generative AI Meets Responsible AI: Supporting User-Driven Algorithm Auditing of Generative AI Systems
Submitted; *AWS Amazon Research Awards*

Co-written with Motahhare Eslami, Ken Holstein, Jason Hong.

[G2] Scaffolding Responsible AI Practice at the Earliest Stages of Ideation, Problem Formulation and Project Selection

Awarded; *PwC*

Co-written with Ken Holstein, Motahhare Eslami, Jodi Forlizzi, Hoda Heidari, Christian Kaestner, Haiyi Zhu, and John Zimmerman

[G1] Public AI Engagement through Public Installation and Display

Not recommended for funding; *Remaking Learning Moonshot Grant Proposal*

Co-written with Ken Holstein, Motahhare Eslami

Honor and Awards

Ethics & Society Workshop Travel Grant

\$1,200, Allen Institute for AI

2023

Special Recognitions for Outstanding Reviews

CHI Conference on Human Factors in Computing Systems (CHI)

2023

Ethics & Society Workshop Invited Participants

\$500, Allen Institute for AI

2023

CMU Graduate Student Travel Grant,

\$750, Carnegie Mellon University

2022

CERES (Connecting the EdTech Research EcoSystem) Fellowship

through Jacobs Foundation, Carnegie Mellon University

2021

Special Recognitions for Outstanding Reviews,

Computer-Supported Cooperative Work and Social Computing (CSCW)

2021

EECS Undergraduate Research Honor,

Electrical Engineering and Computer Science, UC Berkeley

2020

Highest Distinction, School of Letter and Science, UC Berkeley

2020

Dean's List, School of Letter and Science, UC Berkeley

2018, 2019, 2020

First Price for Chinese National Physics Olympiad (60/22,000)

2015

Research Experience

AllenNLP, Allen Institute for AI

Fall 2023 - now

Research Assistant (Research Intern offer deferred due to Visa constraint)

Research supervisor: Jesse Dodge & Nicole DeCario

Research Topics: Responsible AI, Generative AI, Impact Assessment

FATE, Microsoft Research

Summer 2023

Research Intern

Research supervisors: Jenn Wortman Vaughan & Solon Barocas

Research Topics: Responsible AI, Impact Assessment.

4A Lab, Carnegie Mellon University

Summer 2021 - now

Ph.D. Student

Research supervisors: Motahhare Eslami

Research Topics: Responsible AI ([P7], [P8]), Algorithm Auditing [P7]

CoALA Lab, Carnegie Mellon University Fall 2020 - now
Pre-Doctoral Research Assistant & Ph.D. Student
Research supervisors: Ken Holstein
Research Topics: Responsible AI ([WP3], [P5], [P7], [P8]), Algorithm Auditing ([P7])

Social AI Group, Carnegie Mellon University Fall 2020 - Fall 2021
Pre-Doctoral Research Assistant
Research supervisors: Haiyi Zhu and Steven Wu
Research Topics: Responsible AI ([P2], [P4], [P5]), ML Fairness ([WP3], [P5]) and Social Computing [P6]

**To3 Group, University of California, Berkeley
& Google Ethical AI, Google** Fall 2019 - Fall 2020
Undergraduate Research Assistant
Research supervisors: Niloufar Salehi
Research Topics: Responsible AI for Machine Translation ([WP2], [WP4], [P3])

BioSENSE Lab, University of California, Berkeley Fall 2018 - Fall 2020
Undergraduate Research Assistant
Research supervisors: Kimiko Ryokai and David Bamman
Research Topics: Design [WP1] and Ubiquitous computing ([WP1], [P1])

**Invited Talk
and Panelist**

Supporting Responsible AI in Real-world Organizational Contexts: Current Practices, Challenges, and Opportunities in Industry Settings

Invited talk at Capital One, Data Science Team 07/2023

Invited talk at TU Delft, Faculty of Industrial Design Engineering 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 Fairness and Opacity (AFOG) Group 10/2022

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 Interaction"
hosted by UC Berkeley, Chinese Student Association 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 AI Governance Tools. An international review of AI Governance Tools and suggestions for pathways forward	
	07/2023, Center for Advancing Safety of Machine Intelligence , AI ethics debate at Chicago conference, precursor to CASMI's next workshop.	
	06/2023, Queer in AI , 3 things that AI ethics toolkits get wrong.	
	12/2022, WIRED , ChatGPT, Galactica, and the Progress Trap: When large language models fall short, the consequences can be serious. Why is it so hard to acknowledge that?	
	11/2021, CMU HCII , HCII Researchers To Study Improving Algorithm, Computer Science Education as Part of CERES Network.	
Academic Service	Program Committee FAccT, Since 2022 Empathy-centric Design at Scale Workshop, CHI 2022	
	Conference Reviewer CHI, since 2021 CSCW, since 2021 FAccT, since 2021 AIES, since 2023 ICASSP 2021 TEI 2023	
	Others CMU HCII Ph.D. student Social Hour: Organizer CMU Responsible AI Initiate Ph.D. social Hour: Organizer CMU HCII Ph.D. student CHI practice talk: Organizer CMU SCS Ph.D. Application Assistance for underrepresented applicants CMU HCII Ph.D. Junior-Senior Coffee chat: Co-organizer	2021, 2022, 2023 2022 2022 2021, 2022 2021, 2022
Research Mentorship	Howard Han , CMU, Master Student Research Assistant Xiaofeng Yan , CMU, Master Student Research Assistant <i>Now Columbia University CS Ph.D.</i> Jieyu Zhou , CMU, Master Student Research Assistant <i>Now Georgia Tech Interactive Computing Ph.D.</i> Shixian Xie , CMU, Master Student Research Assistant <i>Now CMU HCII Ph.D.</i> Leijie Wang , Tsing-hua University, Undergraduate HCI Research Assistant	Spring 2023 - Now Fall 2022 - Spring 2023 Spring 2022 - Spring 2023 Summer 2022 - Spring 2023

Now UW CSE Ph.D.

Bill Guo, CMU, Undergraduate HCI Research Assistant

Spring 2021 - Spring 2022

Summer 2021 - Fall 2022

**Project
Mentorship**

Yvonne Fang, CMU, Master Student Research Assistant

Spring 2023 - Now

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 Study

Spring 2022

Susan Huang, CMU, Undergraduate HCI Research Assistant

Fall 2021

Alice Tran, CMU, Undergraduate HCI Research Assistant

Fall 2021

Teaching

User Centered Research and Evaluation, *05-710*, CMU

Graduate TA; 2020

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, MATLAB, SQL, \LaTeX .

Machine Learning: PyTorch, TensorFlow, NumPy, Pandas, Scikit-Learn, MapReduce, NLTK, PyData, SciPy.

Design: Figma, Miro, Photoshop, Illustrator, Visualization (D3.js/ggplot2/Seaborn).