ANDI PENG

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EDUCATION

[C3]

[C2]

20.6% Acceptance Rate]

Ent. 2020	Massachusetts Institute of Technology Ph.D. Student, Electrical Engineering and Computer Science Computer Science and Artificial Intelligence Laboratory (CSAIL)
2013-18	Yale University, cum laude B.S. Cognitive Science (Advisor: Brian Scassellati) Thesis: An Integrated Machine Learning Approach to Studying Terrorism B.A. Global Affairs, with distinction (Advisor: William Casey King) Capstone: Early Detection of Boko Haram Attacks in Nigeria
SELECTED F	ELLOWSHIPS, HONORS, AND AWARDS
2018	Fox International Fellowship, University of Cambridge (\$30,000: declined)
2017	Truman Scholarship (\$30,000)
2017	Douglas A. Beck Prize, to an outstanding student for "high academic achievement, leadership potential, personal integrity, and commitment to public service", Yale
2016	Multidisciplinary Aeronautics Research Team Initiative, NASA (\$10,000)
2016	John D. Heinz Fellowship, Yale (\$14,000)
2015	Nathan Hale Scholarship, "a special distinction that reflects the university's esteem for past and future achievements", Yale (\$55,000)
2014	The President's Volunteer Service Award, Barack Obama's Council on Service and Civic Participation
2013	National Merit Scholarship (\$2,500)
2013	Appointment to the United States Military Academy at West Point (declined)
REFEREED C	CONFERENCE PUBLICATIONS
[C5]	Andi Peng , Emre Kiciman, Besmira Nushi, Kori Inkpen, and Ece Kamar. He's a paralegal and she's a lawyer? How different AI models effect accuracy and bias of human decision-making. Under review .
[C4]	Andi Peng and Malina Simard-Halm. The perils of objectivity: towards a normative framework for fair judicial decision-making. To appear in <i>Proceedings of the 3rd AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society</i> (AIES 2020). New York, NY. [34.1% Acceptance Rate]

Caleb Robinson, Anthony Ortiz, Kolya Malkin, Blake Elias, **Andi Peng**, Dan Morris, Bistra Dilkina, and Nebojsa Jojic. Human-machine collaboration for fast land-cover mapping. To appear in *Proceedings of the 34th AAAI Conference on Artificial Intelligence* (AAAI 2020). New York, NY. [Oral,

Andi Peng, Besmira Nushi, Emre Kiciman, Kori Inkpen, Siddharth Suri, Kori Inkpen, and Ece Kamar. What you see is what you get? The impact of representation criteria on human bias in hiring.

In *Proceedings of the 7th AAAI Conference on Human Computation and Crowdsourcing* (HCOMP 2019). Skamania Lodge, WA. [25%Acceptance Rate]

[C1] Kenneth Decker, Jeffrey Chin, Andi Peng, Colin Summers, Golda Nguyen, Andrew Oberlander, Gazi Sakib, Nariman Sharifrazi, Christopher Heath, Justin Gray, and Robert Falck. Conceptual feasibility study of the Hyperloop vehicle for next-generation transport. In *Proceedings of the 55th AIAA Aerospace Sciences Meeting* (SciTech 2017). Grapevine, TX.

REFEREED WORKSHOP PUBLICATIONS

[W1] Caleb Robinson, Anthony Ortiz, Kolya Malkin, Blake Elias, **Andi Peng**, Dan Morris, Bistra Dilkina, and Nebojsa Jojic. Human-machine collaboration for fast land-cover mapping. In *Tackling Climate Change with Machine Learning Workshop* at the 33rd Conference on Neural Information Processing Systems (NeurIPS CCAI 2019). Vancouver, Canada.

WORK AND RESEARCH EXPERIENCE

Sep 2019- Sep 2018-19	Applied Scientist II, Microsoft AI&Research AI Resident, Microsoft Research Collaborators: Ece Kamar, Besmira Nushi, Nebojsa Jojic, Emre Kiciman, Kori Inkpen See: Partnership on AI Report on Algorithmic Risk Assessment Tools.	Redmond, WA Redmond, WA
Jan-Sep 2018	Policy Intern, White House Office of Science and Technology Policy (OSTP) Research Associate, National Institute of Standards and Technology (NIST) Under the U.S. CTO, contributed to national quantum+AI strategy and helped s	Washington, DC
Spring 2018	tum Economic Development Consortium. Undergraduate Researcher, Yale Cognitive Science Department Advisor: Brian Scassellati Integrated ML + political science approaches to understanding terrorism	New Haven, CT
Spring 2018	Undergraduate Researcher, Yale Computer Science Department <i>Advisor: Joan Feigenbaum</i> The impact of risk assessment tools on procedural justice in criminology decision	New Haven, CT
Summer 2017	Security Engineering Intern, Facebook eCrime Team Menlo Park, CA Threat modeling to aid investigators in proactive and responsive queries. Collaborated with law enforcement on counter-terrorism, sex trafficking, and state-sponsored information cases.	
Spring 2017	Undergraduate Researcher, Yale Computer Science Department Advisor: Brian Scassellati RL for multi-agent Sphero control. Automatic path initialization and P- or PID-control for navigation.	
Fall 2016	Global Affairs Capstone, U.S. Institute of Peace Advisor: William Casey King Early-detection of Boko Haram attacks in Nigeria using financial modeling and sentiment analysis.	
Summer 2016	MARTI Researcher, NASA Glenn Research Center <i>Advisors: Jeffrey Chin and Justin Gray</i> Full system modeling and feasibility study of the Hyperloop.	Cleveland, OH

TALKS AND PRESENTATIONS

Oct 2019	What You See Is What You Get? The Impact of Representation Criteria on Human Bias in Hiring [C2] Conference session, HCOMP 2019: "Recruiting the Crowd". Skamania Lodge, WA.	
Jun 2019	Do We Want Male Nannies? Decomposing Human and Algorithmic Biases in Hiring [C2] Invited talk, Microsoft AI&R Diversity, Inclusion and Belonging Day. Redmond, WA.	
May 2019	Human-AI Collaboration for Social Good [C3] Presentation, Microsoft AI for Good. Redmond, WA.	
Sep 2018	Federal Science Policy: Lessons from the White House Presentation, AI residency program, Microsoft Research. Redmond, WA.	
Jan 2017	Conceptual Sizing and Feasibility Study for a Magnetic Plane Concept [C1] Conference session, SciTech 2017: "Hyperloop and Future High-Speed Transportation Concept Grapevine, TX.	
Aug 2016	Conceptual Feasibility Study of the Hyperloop for Next-Generation Transport [C1] Presentation to NASA Administration (Aeronautics Research Mission Directorate). Cleveland, Ol	
June 2014	U.SChina Relations and the Role of International Development Invited talk, Hubei University for Nationalities School of International Studies. Hubei, China.	
TEACHING		
Fall 2017	Teaching Assistant, CPSC 100 (CS50): Introduction to Computer Science Yal	
Spring 2017	Teaching Assistant, CPSC 223: Data Structures and Programming Techniques Yal	
Fall 2015-16	Head Teaching Assistant, CPSC 100 (CS50): Introduction to Computer Science	
	First undergraduate head TA in university history for the largest engineering course in university history. Managed a course staff of 62 for 450+ students. Had weekly teaching sections professional filmed and produced for streaming on the course website.	
Spring 2016	Peer Tutor, CPSC 202: Mathematical Tools for Computer Science	
PROFESSION	NAL SERVICE	
Reviewer	CHI 2020	
2016-2018	Student Advisory Committee, Yale Computer Science Department	
2015-2018	Mentor, Yale FLOAT (Women and Minorities in CS)	
LEADERSHI	P AND COMMUNITY SERVICE	
2016-18	Student Advisory Board, Yale Jackson Institute for Global Affairs	
	Implemented recommendations to included establishing a pre-registration system, eliminating tra within the major, and creating a new quantitative core sequence.	
2017	Student Advisory Board, Yale Brady-Johnson Program in Grand Strategy	
2016-17	Peer Liaison, Yale Asian-American Cultural Center	
	Served as the sole upperclassman mentor in Berkeley College (one of 14 residential colleges at Yale Organized diversity initiatives, programming, and events across the university at large.	

2016-17 Captain, Yale Women's Club Soccer

2016-17 Executive Board, Yale Psi Chi Chapter (international honor society in psychology)

2013-16 Deputy Executive Director, **Teaching Peace Initiative**

Helped lead a student-run 501(c)(3) for teaching peace-curriculum in schools. Operational in 21 states and 3 continents at time of transition.

LANGUAGES (HUMAN)

English Native Mandarin Native

French Conversational

LETTER WRITERS

1. Dr. Ece Kamar

Principal Researcher Microsoft Research Redmond, WA eckamar@microsoft.com

2. Dr. Jacob Taylor

Assistant Director for Quantum Information Science White House Office of Science and Technology Policy (OSTP) Washington, DC jacob.taylor@nist.gov

3. Dr. Brian Scassellati

Professor of Computer Science, Cognitive Science, and Mechanical Engineering Yale University
New Haven, CT
brian.scassellati@yale.edu