

ANDI PENG

CONTACT INFORMATION

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EDUCATION

Ph.D.	Massachusetts Institute of Technology Electrical Engineering and Computer Science Computer Science and Artificial Intelligence Laboratory (CSAIL)	Eventually Cambridge, MA
B.S., B.A.	Yale University <i>cum laude</i> , GPA: 3.9/4.0 Cognitive Science Thesis: An Integrated Machine Learning Approach to Studying Terrorism Global Affairs, <i>with distinction</i> Capstone: Early Detection of Boko Haram Attacks in Nigeria	2013 - 2018 New Haven, CT

AFFILIATIONS

2018 -	Microsoft Research, Adaptive Systems and Interaction Group <i>AI Resident</i> Mentors: Ece Kamar, Besmira Nushi, Emre Kiciman, Kori Inkpen, Nebojsa Jojic	Redmond, WA
2018	White House Office of Science and Technology Policy (OSTP) National Institute for Standards and Technology (NIST) <i>Policy Intern/Research Associate</i> Mentor: Jake Taylor	Washington, DC Gaithersburg, MD
2016 - 2018	Yale University, Social Robotics Lab <i>Undergrad Researcher</i> Mentor: Brian Scassellati	New Haven, CT
2016 - 2017	NASA Glenn Research Center <i>MARTI Researcher</i> Mentors: Justin Gray, Jeffrey Chin	Cleveland, OH

SELECTED FELLOWSHIPS, HONORS, AND AWARDS

2020 - 2025	NSF Graduate Research Fellowship	\$138,000
2018	Fox International Fellowship, University of Cambridge	\$30,000 (<i>declined</i>)
2017	Truman Scholarship	\$30,000
2017	Douglas A. Beck Prize, Yale University "To an outstanding student for high academic achievement, leadership potential, personal integrity, and commitment to public service"	
2017	Brady-Johnson Grand Strategy Research Grant, Yale University	\$4,000
2016	John D. Heinz Fellowship, Yale University	\$14,000
2015	Nathan Hale Scholarship, Yale University "A special distinction that reflects the university's esteem for past and future achievements"	\$55,000

2014	The President's Volunteer Service Award, 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 Nominations from Senator Sherrod Brown and Congressman Steve LaTourette	(declined)

REFEREED CONFERENCE PUBLICATIONS

- C4. [Human-Machine Collaboration for Fast Land-Cover Mapping](#).
Caleb Robinson, Anthony Ortiz, Kolya Malkin, Blake Elias, **Andi Peng**, Dan Morris, Bistra Dilkina, and Nebojsa Jojic.
Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI 2020).
[Oral, 20.6% Acceptance Rate]
- C3. [The Perils of Objectivity: Towards a Normative Framework for Fair Judicial Decision-Making](#).
Andi Peng and Malina Simard-Halm.
Proceedings of the 3rd AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES 2020).
[Spotlight, 34.1% Acceptance Rate]
- C2. [What You See is What You Get? The Impact of Representation Criteria on Human Bias in Hiring](#).
Andi Peng, Besmira Nushi, Emre Kiciman, Kori Inkpen, Siddharth Suri, Kori Inkpen, and Ece Kamar.
Proceedings of the 7th AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2019).
[25.0% Acceptance Rate]
- C1. [Conceptual Feasibility Study of the Hyperloop Vehicle for Next-Generation Transport](#).
Kenneth Decker, Jeffrey Chin, **Andi Peng**, Colin Summers, Golda Nguyen, Andrew Oberlander, Gazi Sakib, Nariman Sharifrazi, Christopher Heath, Justin Gray, and Robert Falck.
Proceedings of the 55th AIAA Aerospace Sciences Meeting (SciTech 2017).

JOURNAL PUBLICATIONS

- J1. How different AI models effect accuracy and bias of human decision-making.
Andi Peng, Besmira Nushi, Kori Inkpen, Emre Kiciman, and Ece Kamar.
In preparation.

REFEREED WORKSHOP PUBLICATIONS

- W2. [On the Nature of Bias Percolation: Assessing Multiaxial Collaboration in Human-AI Systems](#).
Andi Peng, Besmira Nushi, Kori Inkpen, Emre Kiciman, and Ece Kamar.
CHI 2020, Workshop on *Human-Centered Approaches to Fair and Responsible AI*.
- W1. [Human-Machine Collaboration for Fast Land-Cover Mapping](#).
Caleb Robinson, Anthony Ortiz, Kolya Malkin, Blake Elias, **Andi Peng**, Dan Morris, Bistra Dilkina, and Nebojsa Jojic.
ICLR 2020, Workshop on *Climate Science and Adaptation*.
NeurIPS 2019, Workshop on *Tackling Climate Change with Machine Learning*.

POLICY CONTRIBUTIONS

- Contributions made to institutional policy work.
- P3. [Report on Algorithmic Risk Assessment Tools in the U.S. Criminal Justice System](#).
The Partnership on AI. Working Group on Fairness, Transparency, and Accountability.
2019.
- P2. [National Strategic Overview for Quantum Information Science](#).
The White House. Office of Science and Technology Policy.
2018.

- P1. [Nigeria: Tracking and Promoting Good Governance.](#)
United States Institute of Peace. Through the Yale Jackson Institute for Global Affairs.
 2016.

INDUSTRY EXPERIENCE

2019 -	Microsoft AI & Research, Research Canvas <i>Applied Scientist II</i> AI Strategy and Architecture Team	Redmond, WA
2017	Facebook, eCrime Team <i>Security Engineering Intern</i> Created threat modeling to aid investigators. Collaborated with law enforcement on counter-terrorism, sex trafficking, and state-sponsored information cases.	Menlo Park, CA
2014 - 2015	IT Central Station <i>Product Manager</i> Designed BI workflows and new site features.	Tel Aviv, Israel

INVITED TALKS AND PRESENTATIONS

Jun 2020	Microsoft Research Power Lunch. Online (previously Redmond, WA).	C2.
Apr 2020	Workshop on Fair and Responsible AI, CHI 2020. Online (previously Honolulu, HI).	W2.
Feb 2020	Spotlight, AIES 2020. New York, NY.	C3.
Oct 2019	Conference session, HCOMP 2019. Skamania, WA.	C2.
Jun 2019	Microsoft AI&R Diversity, Inclusion and Belonging Day. Redmond, WA.	C2., P3.
May 2019	AI for Good Group, Microsoft. Redmond, WA.	C2.
Sep 2018	Microsoft Research AI Seminar. Redmond, WA.	P2.
Jan 2017	Conference session, SciTech 2017. Grapevine, TX.	C1.
Aug 2016	Aeronautics Research Mission Directorate, NASA. Glenn, OH.	C1.
Jun 2014	School of International Studies, Hubei University. Enshi, China.	

TEACHING

	Yale Computer Science Department	
T.A.	CPSC 100 (CS50): Introduction to Computer Science	Fall 2017
T.A.	CPSC 223: Data Structures and Programming Techniques	Spring 2017
T.A.	CPSC 202: Mathematical Tools for Computer Science	Spring 2016
Head T.A.	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 professionally filmed and produced for streaming on the course website.	Fall 2015, 2016
	Yale Astrophysics Department	
T.A.	ASTR 343: Gravity, Astrophysics, and Cosmology	Spring 2015

PROFESSIONAL SERVICE

Reviewer	CHI 2020
Board of Advisors	Yale Jackson School of Global Affairs, 2020 - Present
Student Advisory Board	Yale Psi Chi Honor Society, 2017 - 2018 Yale Jackson Institute for Global Affairs, 2016 - 2018 Yale Brady-Johnson Program in Grand Strategy, 2017 - 2018
Mentor	Yale FLOAT (Women and Minorities in CS), 2016 - 2018

OTHER SERVICE

- 2016 - 2017 **Yale Asian-American Cultural Center**
Peer Liaison
The sole upperclassman peer mentor in Berkeley College (one of 14 residential colleges at Yale). Organized diversity initiatives, programming, and events across the university at large.
- 2015 - 2016 **Yale Women's Club Soccer**
Captain
Managed team tryouts, practices, and social events.
- 2013 - 2015 **Teaching Peace Initiative**
Deputy Executive Director
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