ANDI PENG

CONTACT

Stata Center (MIT 32-386)
32 Vassar Street
Cambridge, MA 02139

andipeng@mit.edu
+1 (440) 715-0384
https://andipeng.com

EDUCATION

	Massachusetts Institute of Technology	2020 - Present
Ph.D.	Electrical Engineering and Computer Science	
	Yale University, *cum laude* (GPA 3.9/4.0)	2013 - 2018
B.S.	Cognitive Science	
B.A.	Global Affairs, *with distinction*	

RESEARCH POSITIONS

2020 - Present	**Embodied Intelligence, MIT CSAIL** *Graduate Research Assistant* Advisor: Pulkit Agrawal	Cambridge, MA
Summer-Fall 2021	**Robotics, Facebook AI Research (FAIR)** *Research Intern/Student Researcher* Mentors: Aravind Rajeswaran and Vikash Kumar	Pittsburgh, PA
2018 - 2020	**Adaptive Systems and Interaction Group, Microsoft Research** *AI Resident* 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)** *Policy Intern/Research Associate* Mentor: Jake Taylor	Washington, DC Gaithersburg, MD
2016 - 2018	**Social Robotics Lab, Yale University** *Undergraduate Research Assistant* Advisor: Brian Scassellati	New Haven, CT
Summer 2016	**NASA Glenn Research Center** *MARTI Researcher* Mentors: Justin Gray and Jeffrey Chin	Cleveland, OH

SELECTED FELLOWSHIPS, HONORS, AND AWARDS

2020 - 2025	NSF Graduate Research Fellowship	$138,000
2018	Fox Fellowship, University of Cambridge	$30,000 *(declined)*
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	Grand Strategy Research Grant, Yale University	$4,000
2016	John D. Heinz Fellowship, Yale University	$14,000

2015 Nathan Hale Scholarship, Yale University $55,000
"A special distinction that reflects the university's esteem for past and future achievements"

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 U.S. Military Academy at West Point *(declined)*
Nominated by Senator Sherrod Brown and Congressman Steve LaTourette

REFEREED CONFERENCE PUBLICATIONS

C5. Investigations of Performance and Bias in Human-AI Teamwork in Hiring.
Andi Peng, Besmira Nushi, Kori Inkpen, Emre Kiciman, Ece Kamar.
AAAI 2022 (oral, 4.9% acceptance rate).

C4. Human-Machine Collaboration for Fast Land-Cover Mapping.
Caleb Robinson, Anthony Ortiz, Kolya Malkin, Blake Elias, **Andi Peng**, Dan Morris, Bistra Dilkina, Nebojsa Jojic.
AAAI 2020 (oral, 3.9% acceptance rate).

C3. The Perils of Objectivity: Towards a Normative Framework for Fair Judicial Decision-Making.
Andi Peng, Malina Simard-Halm.
AIES 2020 (spotlight).

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, Ece Kamar.
HCOMP 2019.

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, Robert Falck.
NASA Technical Report, AIAA SciTech 2017.

REFEREED WORKSHOP PUBLICATIONS

W3. On the Nature of Bias Percolation: Assessing Multiaxial Collaboration in Human-AI Systems.
Andi Peng, Besmira Nushi, Kori Inkpen, Emre Kiciman, Ece Kamar.
CHI 2020, Workshop on *Human-Centered Approaches to Fair and Responsible AI*.

W1-2. Human-Machine Collaboration for Fast Land-Cover Mapping.
Caleb Robinson, Anthony Ortiz, Kolya Malkin, Blake Elias, **Andi Peng**, Dan Morris, Bistra Dilkina, Nebojsa Jojic.
ICLR 2020, Workshop on *Climate Science and Adaptation*.
NeurIPS 2019, Workshop on *Tackling Climate Change with Machine Learning*.

POLICY WORK

Contributions made to institutional policy work.

P4. Led and evaluated grant on Improving the ML Publishing Process.
Schmidt Futures. ICLR 2022 ML Evaluation Standards Workshop.
Apr 2022.

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.
Apr 2019.

P2. National Strategic Overview for Quantum Information Science.
The White House. Office of Science and Technology Policy.
Sep 2018.

P1. Nigeria: Tracking and Promoting Good Governance.
United States Institute of Peace. Through the Yale Jackson School of Global Affairs.
Dec 2016.

INDUSTRY EXPERIENCE

2021 - **Plaintext Group, Schmidt Futures** — New York, NY
Part-Time Researcher

2019 - 2020 **Research Canvas Incubation, Microsoft AI & Research** — Redmond, WA
Applied Scientist II

2017 **Electronic Crimes Team, Facebook** — Menlo Park, CA
Security Engineering Intern
Created threat modeling to aid investigators. Collaborated with law enforcement on counter-terrorism, sex trafficking, and state-sponsored information cases.

2014 - 2015 **IT Central Station** — Tel Aviv, Israel
Product Manager

INVITED TALKS AND PRESENTATIONS

Feb 2022	AAAI 2022 oral session. Virtual.	C5.
Jun 2020	Adaptive Systems and Interaction Group, Microsoft Research. Virtual.	C2.
Apr 2020	CHI 2020 Workshop on Fair and Responsible AI. Virtual.	W2.
Feb 2020	AIES 2020 spotlight session. New York, NY.	C3.
Oct 2019	HCOMP 2019 conference session. Skamania, WA.	C2.
Jun 2019	Microsoft AI&R Diversity, Inclusion and Belonging Day. Redmond, WA.	C2., P3.
May 2019	Microsoft AI for Good Research Lab. Redmond, WA.	C2.
Sep 2018	Microsoft Research AI Seminar. Redmond, WA.	P2.
Jan 2017	AIAA SciTech 2017 conference session. Grapevine, TX.	C1.
Aug 2016	NASA Aeronautics Research Mission Directorate. Glenn, OH.	C1.
Jun 2014	Hubei University School of International Studies. Enshi, China.	

TEACHING

MIT Electrical Engineering and Computer Science

IAP 2021 — 6.S090: Deep Learning for Control — Co-Head T.A.

Yale Computer Science

Fall 2017	CPSC 100 (CS50): Introduction to Computer Science	T.A.
Spring 2017	CPSC 223: Data Structures and Programming Techniques	T.A.
Spring 2016	CPSC 202: Mathematical Tools for Computer Science	T.A.

Fall 2015, 2016 — CPSC 100 (CS50): Introduction to Computer Science — Head T.A.
First undergraduate head T.A. 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.

Yale Astrophysics

Spring 2015 — ASTR 343: Gravity, Astrophysics, and Cosmology — T.A.

PROFESSIONAL SERVICE

Reviewer	AAAI 2022, AIES 2021, 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

RESEARCH MENTORSHIP

2021 - Present Jerry Mao (Undergraduate at MIT)
Research on DARPA Machine Common Sense Project.

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

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.

TECHNICAL SKILLS

Languages	Python, Java, C/C++, R, JavaScript, LaTeX
Software	PyTorch, TensorFlow, Gym, OpenCV, Stata

LANGUAGES (HUMAN)

English	Native
Mandarin	Native
French	Conversational