lily_xu@g.harvard.edu lily-x.github.io

Education	Harvard University. Cambridge, MA PhD Candidate in Computer Science Advisor: Milind Tambe	expected 2024
	Thesis committee: Dimitris Bertsimas, Yiling Chen, Andrew Davies Dartmouth College. Hanover, NH A.B. with Honors in Computer Science, minor in Spanish Magna cum laude	2018
Honors	Siebel Scholar GATech Rising Star in EECS Stanford Rising Star in Management Science and Engineering (MS&E) Selected participant at workshop to "celebrate and fast-track the careers of exceptional young scholars at a critical inflection point in their career".	
	Google PhD Fellowship One of 13 awardees in machine learning globally.	2022
	INFORMS Doing Good with Good OR Competition Winner Recognizes the "most exciting work performed by students in partnership public and private organizations that yields tangible and beneficial outcome	
	for individuals, communities, and organizations". AAAI Best Paper Award Runner Up 3 best papers and 3 runner-ups were selected out of 9,034 submissions and 1,692 accepted papers.	2021
	Certificate of Appreciation from the SMART Partnership Recognition for contribution to developing PAWS system.	2019
	Five Citations for Academic Excellence at Dartmouth College Special distinction rarely awarded by faculty members "for meritorious characteristics not indicated adequately by academic grades", received acr five computer science and Spanish courses.	2014 – 2018 oss
	Adobe Women-In-Technology Scholarship – Honorable Mention	2017
Non-Profit Service	SMART Conservation Partnership. AI Lead I work with SMART to effectively integrate AI, computation, and research their conservation management activities. The SMART Partnership is the global leader in protected area solutions, consisting of 8 leading conservation NGOs: WWF, Wildlife Conservation Society, Wildlife Protection Solution Frankfurt Zoological Society, ZSL, NC Zoo, Panthera, and Re:wild.	e ion
Work Experience	Google Research. India, AI for Social Good lab Student Researcher	Spring 2022
	Google. Seattle, WA Software Engineering Intern	Summer 2017
	Dyn, Inc. Hanover, NH Data Analytics Research Intern	Spring 2016

Preprints

- * indicates equal contribution
- † indicates undergraduate I advised $(\alpha \beta)$ indicates alphabetical ordering

Reinforcement learning with combinatorial actions for coupled restless bandits

Under review

Lily Xu, Bryan Wilder, Elias B. Khalil, Milind Tambe

Ranger patrols deter poaching: first causal insights for improving protected area management

Working paper

Rachel Guo^{†*}, **Lily Xu***, Andrew Perrault, Luke W. Miratrix, Andrew J. Plumptre, Joshua Mabonga, Herbert Kitimbo, Fredrick Wanyama, Simon Nampindo, Milind Tambe, Andrew B. Davies

Artificial Replay: A Meta-Algorithm for Harnessing Historical Data in Bandits

Under review

 $(\alpha\!-\!\beta)$ Siddhartha Banerjee, Sean R. Sinclair, Milind Tambe, **Lily Xu**, Christina Lee Yu

Reflections from the Workshop on AI-Assisted Decision Making for Conservation

 $White\ paper$

Lily Xu*, Esther Rolf*, Sara Beery, Joseph R. Bennett, Tanya Berger-Wolf, Tanya Birch, Elizabeth Bondi-Kelly, Justin Brashares, Melissa Chapman, Anthony Corso, Andrew Davies, Nikhil Garg, Angela Gaylard, Robert Heilmayr, Hannah Kerner, Konstantin Klemmer, Vipin Kumar, Lester Mackey, Claire Monteleoni, Paul Moorcroft, Jonathan Palmer, Andrew Perrault, David Thau, Milind Tambe

Publications (Journals)

Bridging adaptive management and reinforcement learning for more robust decisions

Philosophical Transactions of the Royal Society B (2023) Volume 378, Issue 1881 Melissa Chapman, Lily Xu, Marcus Lapeyrolerie, Carl Boettiger

Publications (Conferences)

Stay Ahead of Poachers: Illegal Wildlife Poaching Prediction and Patrol Planning Under Uncertainty with Field Test Evaluations

ICDE 2020. 36th IEEE International Conference on Data Engineering
Lily Xu*, Shahrzad Gholami*, Sara Mc Carthy, Bistra Dilkina, Andrew Plumptre,
Milind Tambe, Rohit Singh, Mustapha Nsubuga, Joshua Mabonga, Margaret Driciru,
Fred Wanyama, Aggrey Rwetsiba, Tom Okello, Eric Enyel

Dual-Mandate Patrols: Multi-Armed Bandits for Green Security

AAAI 2021. 35th AAAI Conference on Artificial Intelligence

Lily Xu, Elizabeth Bondi, Fei Fang, Andrew Perrault, Kai Wang, and Milind Tambe Best Paper Award Runner Up

Top 6 of 1692 accepted papers

Envisioning Communities: A Participatory Approach Towards AI for Social Good

AIES~2021.~4th AAI/ACM Conference on AI, Ethics, and Society Elizabeth Bondi*, **Lily Xu***, Diana Acosta-Navas, Jackson A. Killian

Robust Reinforcement Learning Under Minimax Regret for Green Security

UAI 2021. 37th Conference on Uncertainty in Artificial Intelligence
Lily Xu, Andrew Perrault, Fei Fang, Haipeng Chen, Milind Tambe
Oral Presentation

Top 6.17% of submissions

Coordinating Followers to Reach Better Equilibria: End-to-End Gradient Descent for Stackelberg Games

AAAI 2022. 36th AAAI Conference on Artificial Intelligence Kai Wang, Lily Xu, Andrew Perrault, Michael K. Reiter, Milind Tambe

Ranked Prioritization of Groups in Combinatorial Bandit Allocation

IJCAI 2022. 31st International Joint Conference on Artificial Intelligence Lily Xu, Arpita Biswas, Fei Fang, Milind Tambe

Restless and Uncertain: Robust Policies for Restless Bandits via Deep Multi-Agent Reinforcement Learning

UAI 2022. 38th Conference on Uncertainty in Artificial Intelligence Jackson A. Killian, Lily Xu, Arpita Biswas, Milind Tambe

Optimistic Whittle Index Policy: Online Learning for Restless Bandits

AAAI 2023. 37th AAAI Conference on Artificial Intelligence Kai Wang*, Lily Xu*, Aparna Taneja, Milind Tambe

Robust Planning over Restless Groups: Engagement Interventions for a Large-Scale Maternal Telehealth Program

AAAI 2023. 37th AAAI Conference on Artificial Intelligence Jackson A. Killian*, Arpita Biswas*, **Lily Xu***, Shresth Verma*, Vineet Nair, Aparna Taneja, Aparna Hegde, Neha Madhiwalla, Paula Rodriguez Diaz, Sonja Johnson-Yu, Milind Tambe

Flexible Budgets in Restless Bandits: A Proximal Primal-Dual Algorithm for Efficient Budget Allocation

AAAI 2023. 37th AAAI Conference on Artificial Intelligence Paula Rodriguez Diaz, Jackson A. Killian, **Lily Xu**, Aparna Taneja, Arun Sai Suggala, Milind Tambe

Publications (Book Chapters)

Environment, Society, and Machine Learning

Oxford Handbook of the Sociology of Machine Learning (2023)

Caleb Scoville, Hilary Faxon, Melissa Chapman, Samantha Jo Fried, **Lily Xu**, Carl Boettiger, J. Michael Reed, Marcus Lapeyrolerie, Amy Van Scoyoc, Razvan Amironesei

FUNDING: PROPOSALS AND AWARDS Co-I. Hannah Kerner, Sara Beery, **Lily Xu**, Jacob Muise, Shay Chan Hodges, Nicholas Winfrey. *Combating Invasive Axis Deer in Maui, Hawaii with Earth Observations and Machine Learning*. Submitted to NASA in response to 2022 Research Opportunities in Space and Earth Sciences (ROSES) A.40 Earth Science Applications: Ecological Conservation (ECON)

Lily Xu. Google PhD fellowship, awarded 2022. \$88,029

Compile Tech. EECS Rising Stars November 2023 UC Berkeley. Data Science Toolbox Series October 2023 Cornell ORIE. Young Researchers Workshop October 2023 Cornell ORIE. Young Researchers Workshop October 2023 Cornell ORIE. Young Researchers Workshop October 2023 October 2022 October	High-stakes decisions from low-quality data: AI decision-making for planetary health			
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### March 2022 ### Harvard University. AI-Assisted Decision-Making Colloquium ### Pebruary 2022 ### Pasteur's Quadrant. Seminar Series ### February 2022 ### INFORMS. Doing Good with Good OR Finalists ### October 2021 Ranked Prioritization of Groups in Combinatorial Bandit Allocation Sony. Computer Science Laboratories (CSL) Paris October 2022 Stanford. Computing & Society group October 2022 INFORMS Annual Meeting. Fairness in Sequential Decision Making October 2022 INFORMS Annual Meeting. Fairness in Sequential Decision Making October 2022 Envisioning Communities: A Participatory Approach to AI for Social Good MIT. AI Ethics group September 2022 Women's Forum. Women4AI Daring Circle workshop June 2022 Robust Reinforcement Learning Under Minimax Regret for Green Security Google Research India. AI for Social Good research group January 2022 PAWS: AI to Predict and Plan Against Poaching ICCB. International Congress for Conservation Biology December 2021 IUCN WCC. World Conservation Congress September 2021 WILDLABS. Tech Tutors: Season Three September 2021 AI for Climate. Mexico Talk Series powered by Huawei July 2021				
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	SMART Partnership. International Women's Day Webinar			

	WWF. Webinar on SMART AI LA. Earth Summit	April 2020 April 2021
	Dual-Mandate Patrols: Multi-Armed Bandits for Green Secu Beijing Academy of Artificial Intelligence. University College London. AI Society	rity March 2021 February 2021
Invited Panels	Hertz Foundation Workshop. AI Science and Policy, moderator panelists: Jacob Steinhardt, Julie Owono, Jessica Fjeld South by Southwest (SXSW). AI for Wildlife, panelist Harvard CRCS. AI for Social Impact, moderator panelists: Susan Murphy, Erez Yoeli, Desmond Patton	July 2022 March 2021 March 2020
Professional Service	Mechanism Design for Social Good (MD4SG) Nonprofit incorporation and Executive Director recruitment, lead MD4SG initiative-wide co-organizer with Charles Cui, Francisco J. Marmolejo Cossío, George Obaido, Matthew Olckers, and Ana-Andrea Stoica; previously with Rediet Abebe, Irene Lo, and Wanyi Li	April 2023 – March 2021 –
		$020 - \mathrm{Apr}\ 2021$ $020 - \mathrm{Apr}\ 2021$
	Workshop Organization Co-organizer, AI-Assisted Decision Making for Conservation Workshop with Esther Rolf and Milind Tambe Organizer, SMART/PAWS Workshop. Rio Bravo, Belize Lead organizer, Harvard CRCS Rising Stars Workshop Co-organizer, Computational Sustainability Doctoral Consortium with Priya Donti, Genevieve Flaspohler, Aaron Ferber, and Sebastic	August 2022 March 2020 October 2019
	Tutorials Lead organizer, AI for Social Impact tutorial @ EAAMO with Emily Aiken, Priya Donti, Nikhil Garg, and Paul Gölz	October 2023
	Panels Co-organizer and co-moderator. The Future of AI for Social Impact panelists: Fei Fang, Lynn Kaack, Danaë Metaxa, Bryan Wilder	April 2022
	Conference Event Organization Social co-chair, ACM EAAMO'23 Social co-chair, ACM EAAMO'22 Social co-chair, ACM EAAMO'21 Social co-chair, Fourth Workshop on MD4SG	October 2023 October 2022 October 2021 August 2020
	Seminar Organization Co-organizer, Harvard CRCS Social Impact Seminar Series Co-organizer, Harvard CRCS Rising Stars Speaker Series Co-organizer, CompSust Open Graduate Seminar (COGS)	Spring 2022 April 2021 Spring 2020
	Program Committee (Reviewing) \rightarrow Conferences AIES. Artificial Intelligence, Ethics, and Society AAAI. AAAI Conference on Artificial Intelligence	2022, 2023 2023

	AAAI AISI track. AAAI Conference on Artificial Intelligence COMPASS. ACM SIGCAS Conference on Computing and Su	,	2021, 2022 ocieties
	2021 EAAMO. Equity and Access in Algorithms, Mechanisms, and 2022, 2023	Optimization	on 2021,
	FAccT. ACM Conference on Fairness, Accountability, and Tra	ansparency	2022, 2023
	IAAI. AAAI Innovative Applications of Artificial Intelligence	1 0	2023
	NeurIPS. Neural Information Processing Systems		2023
	UAI. Uncertainty in Artificial Intelligence		2023
	\rightarrow Workshops		
	AI for Wildlife Conservation @ SIGSPATIAL		2023
	Autonomous Agents for Social Good (AASG) @ AAMAS		2021, 2023
	AI for Social Good @ AAAI	2020	2023
	Data-Driven Humanitarian Mapping @ KDD	2020,	2021, 2022
	Regulating Machine Learning @ NeurIPS		2023
	Computational Sustainability @ NeurIPS		2023
	Cooperative AI Workshop @ NeurIPS Black in AI Workshop @ NeurIPS	2020	$\begin{array}{c} 2022 \\ 2021,\ 2022 \end{array}$
	Machine Learning for the Developing World (ML4D) @ NeurIF		2021, 2022
	Machine Learning for the Developing World (ML4D) @ NeurIPS Machine Learning for Public Health @ NeurIPS	S	2020, 2021
	Resistance AI @ NeurIPS		2021
	AI for Social Good @ IJCAI		2020
	Mechanism Design for Social Good (MD4SG)		2020
	AI for Social Good @ Harvard CRCS		2020
	Competition Selection Committee		
	AI2, EarthRanger Conservation Tech Award		2022, 2023
	Reviewer		
	Deep Learning Indaba		2022
	Caltech Computer Vision for Ecology (CV4Ecology) Summer S	chool	2022
	ICML, subreviewer		2021
	NeurIPS, subreviewer		2020
	IJCAI Special Track on CompSust and Human Well-being, sub	reviewer	2020
	COMPASS, subreviewer		2019
	Bloomberg Data for Good Exchange (D4GX), subreviewer		2019
STUDENTS ADVISED			
	Vincent Börsch-Supan '25		Sept 2022 –
	Alejandra Perea Rojas '24	June 2022 -	
	Christopher Ong '23		Spring 2022
	April Chen '22	Sui	mmer 2021
	Adobe Research Women-In-Technology Scholarship Winner	C	
	Ezenia Diaz-Lembert '23 Emilia Cabrera '21	Sept 2020 -	bring 2021
	Thesis: Protecting the Lion's Share: Mitigating Illegal Wilds	-	
	with Multi-Agent Reinforcement Learning	ije i oaciing	,
	Rachel Guo '22	June 2020 –	May 2023
	NCWIT Collegiate Award Winner		
	CRA Outstanding Undergraduate Researcher Award — Hon	orable Menta	ion
	Harvard Hoopes Prize for Outstanding Thesis		
	NSF Graduate Research Fellowship	A. D	
	Thesis: On the Effect of Ranger Patrols on Deterring Poach	ипд: А Ваує	esian

$Approach \ for \ Causal \ Inference \ Using \ Field \ Tests \ as \ an \ Instrument \\ Next \ step: \ Stanford \ ICME \ PhD \ student$

Teaching	ightarrow Guest Lecturer	
EXPERIENCE	Cornell Tech. CS 6382. Data Science for Social Change	Fall 2023
EXI EIGENCE	Cornell Tech. ORIE 5355/INFO 5370. Applied Data Science: Decision of the control	
	beyond prediction	Fall 2023
	Harvard. CS 182. Artificial Intelligence	Fall 2023
	Cornell. INFO 6960. Data Science for Global Development	Spring 2023
	MIT. 15 076. Analytics for a Better World	Spring 2023
	Harvard. CS 96. Machine Learning for Social Impact	Spring 2023
	Wellesley. CS 115. Computing for the Socio-Techno Web	Fall 2022
	Ohio State. CSE 3521. Survey of Artificial Intelligence I	Fall 2022
	Harvard. CS 288. AI for Social Impact class	Fall 2022
	University of Southern California. ISE 599. Analytics for Social Im	
	University of Pennsylvania. OIDD 941. Recent Advances in Data-I	
	Decision-Making	Spring 2022
	Harvard. CS 96. Machine Learning for Social Impact	Spring 2022
	Cornell Tech. ORIE 5355/INFO 5370. People, Data, Systems	Fall 2021
	Harvard Business School. HBSMBA 2231. From Data to Decisions	
	Wellesley. CS 115. Computing for the Socio-Techno Web	Fall 2021
	Australian National University. CECS8001. Building Cyber-Physic 2021	al Systems Fall
	University of Pittsburgh. CS 1699. AI for Good: Ethics and Implica	ations Spring
	2021	
	University of Michigan. SI 431. Algorithms and Society	Spring 2021
	Harvard. CS 182. Artificial Intelligence	Fall 2020
	Dartmouth. CS 11. Foundations of Applied Computer Science	Spring 2018
	Harvard University	
	\rightarrow Head Teaching Fellow	
	CS 182: Artificial Intelligence	Fall 2020
	Certificate of Distinction in Teaching	1011 2020
	Dartmouth College	
	→ Teaching Assistant, Department of Computer Science	
	CS 31: Algorithms	Winter 2017
	CS 11: Foundations of Applied Computer Science, head TA	Spring 2018
	CS 10: Object-Oriented Programming	Spring 2016
	CS 10: Object-Oriented Programming	Spring 2015
	CS 1: Intro to Programming and Computation	Spring 2018
	CS 1: Intro to Programming and Computation	Fall 2017
	CS 1: Intro to Programming and Computation	Spring 2017
	CS 1: Intro to Programming and Computation	Winter 2016
	CS 1: Intro to Programming and Computation	Fall 2015
	\rightarrow Teaching Assistant, Tuck School of Business	
	Tuck FWP: Fundamentals of Web Programming	Spring 2017
	Tuck DSA: Data Structures and Analytics	Spring 2017
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OUTREACH	Speaking H. J. W. J. G. C. J. C. J. J. H. J. G. C. J. J. J. H. J. G. J.	Mr. 1 0000
	Harvard. Tech for Social Good and Harvard Computer Society	March 2023
	Harvard SEAS. PhD Admitted Students Open House, panelist	March 2021
	Harvard SEAS. Research Labs Open House	November 2020

GirlsComputingLeague. AInnovation Business Summit	September 2020
IEEE Computer Society. Women in Computing, Kerala Chapter	September 2020
Data Science Africa. Tutorial on MD4SG and the Environment	July 2020
Ledyard Canoe Club. Inclusivity in the Outdoors	July 2020
Dartmouth. Women in Computer Science, panelist	May 2020
Harvard SEAS. Diversity, Inclusivity, and Belonging, panelist	May 2020
Center for Initiatives in Jewish Education. High school student visit	t March 2020
World Science Festival. Science and Storytime	June 2019
L.A. Unified School District (LAUSD). African American Family Da	ay May 2019
Zoo Magnet High School. College and Career Day	November 2018

Mentoring

Harvard University.	InTouch Peer Mentor	2020 -
Harvard University.	Women in STEM Mentor	2019 - 2020
Dartmouth College.	Women in Computer Science	2017 - 2018

Volunteering

Harvard SEAS. A Guide to Your PhD	October 2020
Harvard University. Project Teach	April 2020
Cambridge Public Schools. STEAM It Up!	October 2019
Hustle N' Code. Hackathon, technical lead	December 2018

Hustle N' Code is a Los Angeles hackathon for youth in public housing. My team won first place, and the four students each received a laptop.

Press

Case Studies

Harvard Business School. SMART: AI and ML for Wildlife Conservation October 2022

Podcasts

Ecochat. AI for Conservation - Using Machine Learning to Stop Poaching	2023
Cold Call (Harvard Business School podcast). Can AI and Machine Learn	ing Help
Park Rangers Prevent Poaching?	2023
INFORMS Resoundingly Human Podcast.	May 2022
Rethinking Economics NL. Disruptive Technologies podcast series.	May 2021

Video

Alhub. New Voices in AI: environmental conservation with Lily Xu. October 2022 Voice of America (VOA) News. Wildlife Rangers Use AI to Predict Poachers' Next January 2022 Moves.

Articles

Business Insider. Conservationists are using artificial intelligence to ma	p out the
best ways for saving threatened wildlife and resources	October 2022
Oxford Science. AI in conservation: a modern-day solution to the biodi	versity
crisis?	March 2022
The Hill. These new technologies could transform wildlife conservation.	February

2022

November 2021

Alhub. Interview with Lily Xu.

October 2021

Engadget. PAWS anti-poaching AI predicts where illegal hunters will show up next. March 2021

Mongabay. Where to patrol next: 'Netflix' of ranger AI serves up poaching predictions. November 2020 Harvard SEAS.Preventing poaching.June 2020BBC Sounds.How tech is tackling wildlife trafficking.June 2020BBC World Service.Using technology to take on poachers.August 2019USC Viterbi Magazine.AI is for Animals.April 2019