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

		/
EDUCATION	Harvard University. Cambridge, MA PhD Candidate in Computer Science Advisor: Milind Tambe Thesis committee: Dimitris Bertsimas, Yiling Chen, Andrew Davies	expected 2024
	Dartmouth College. Hanover, NH A.B. with Honors in Computer Science, minor in Spanish Magna cum laude	2018
Honors	Siebel Scholar Grant awarded for academic excellence and demonstrated leadership.	2024
	Rising Star in Data Science (UChicago)	2023
	Rising Star in EECS (GATech)	2023
	Rising Star in Management Science and Engineering (Stanford MS&E	
	Google PhD Fellowship	2022
	One of 13 awardees in machine learning globally.	2022
		2021
	INFORMS Doing Good with Good OR Competition Winner	2021
	Recognizes the "most exciting work performed by students in partnership with public and	
	private organizations that yields tangible and beneficial outcomes for inde	viauais,
	communities, and organizations".	0001
	AAAI Best Paper Award Runner Up	2021
	3 best papers and 3 runner-ups were selected out of 9,034 submissions and	na 1,692 acceptea
	papers.	9091
	Harvard University Derek Bok Certificate of Distinction in Teaching	2021
	Certificate of Appreciation from the SMART Partnership	2019
	Recognition for contribution to developing PAWS system.	
	Five Citations for Academic Excellence at Dartmouth College	2014 - 2018
	Special distinction rarely awarded by faculty members "for meritorious clindicated adequately by academic grades", received across five computer sometimes.	
	${\bf Adobe\ Women-In-Technology\ Scholarship-Honorable\ Mention}$	2017
Non-Profit Service	SMART Conservation Partnership. AI Lead I work with SMART to effectively integrate AI research into their consermanagement activities. The SMART Partnership is the global leader in a solutions, consisting of 8 leading conservation NGOs: WWF, WCS, Will Solutions, Frankfurt Zoological Society, ZSL, NC Zoo, Panthera, and Re.	protected area dlife Protection
Work	Google Research. India, AI for Social Good lab Student Researcher	Spring 2022
Experience	Suddin Hoodh Chai	Sprii 2022
	Google. Seattle, WA	
	C-francis Francis - Intone	C 2017

Dyn, Inc. Hanover, NH Data Analytics Research Intern

 $Software\ Engineering\ Intern$

Spring 2016

Summer 2017

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

Working paper

 $(\alpha\!-\!\beta)$ 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). Vol. 378, Issue 1881. Melissa Chapman, Lily Xu, Marcus Lapeyrolerie, Carl Boettiger

Biodiversity monitoring for a just planetary future

Science (2024). Vol. 383, Issue 6678, pp. 34–36.

Melissa Chapman, Benjamin R. Goldstein, Christopher J. Schell, Justin S. Brashares, Neil H. Carter, Diego Ellis-Soto, Hilary Oliva Faxon, Jenny E. Goldstein, Benjamin S. Halpern, Joycelyn Longdon, Kari EA Norman, Dara O'Rourke, Caleb Scoville, Lily Xu, 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 $\mathbf{Xu^*},$ 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, ${\bf Lily~Xu},$ Aparna Taneja, Arun Sai Suggala, Milind Tambe

PUBLICATIONS (POOK CHAPTERS)

Environment, Society, and Machine Learning

(BOOK CHAPTERS) 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

INVITED TALKS

Does not include contributed conference and workshop talks Major talks $\underline{\text{underlined}}$

High-stakes decisions from low-quality data: AI decision-making planetary health	for			
University of Maryland. Analytics for Good workshop	May 2024			
Verena Institute.	May 2024			
Caltech. FALCON Research Group Seminar	Nov 2023			
UChicago. Rising Stars in Data Science	Nov 2023			
UC Berkeley. Data Science Toolbox Series	Oct 2023			
INFORMS Annual Meeting. ML for Social Good session	Oct 2023			
Cornell ORIE. Young Researchers Workshop	Oct 2023			
J.P. Morgan. AI Research group	Oct 2023			
Stanford MS&E. Rising Stars in MS&E	$\mathrm{May}\ 2023$			
Causal AI and Conservation				
ICCB. Int'l Conference on Conservation Biology, Kigali, Rwanda	Jul 2023			
Microsoft Research New England. Machine Learning Ideas seminar	Jun 2023			
United Nations ITU. AI for Good Summit	Jun 2023			
WWF. Fuller Seminar Series on Conservation AI	Apr 2023			
Minimax Regret Optimization: Robust Planning for Conservation Maternal Health	n and			
Berkeley MARL. Multi-Agent Learning Seminar	Mar 2023			
Brown University. Algorithmic Game Theory group	${\rm Mar}\ 2023$			
Learning and Planning Under Uncertainty for Wildlife Conservation				
Harvard Kennedy School. "Leading in AI" Executive Education	Jul 2023			
Penn State. CSRAI Young Achievers Symposium	Mar 2023			
UC Berkeley. Global Policy Lab	Feb 2023			
Centro de Analítica para Políticas Públicas (CAPP). (in Spanish)	Dec 2022			
Georgia Tech. ISyE department seminar	Nov 2022			
Analytics for a Better World. ABW Webinar Series	Sep 2022			
Harvard Kennedy School. "Leading in AI" Executive Education	Jul 2022			
UC Berkeley. Ethics and Practices of Algorithmic Conservation	Apr 2022			
UCL. Climate Hack AI Competition, keynote	Mar 2022			
Harvard University. HCI Colloquium: AI-Assisted Decision-Making	Feb 2022			
Pasteur's Quadrant. Seminar Series	Feb 2022			
INFORMS. Doing Good with Good OR Finalists	Oct 2021			
Ranked Prioritization of Groups in Combinatorial Bandit Allocate	tion			
Sony. Computer Science Laboratories (CSL) Paris	Oct 2022			
Stanford. Computing & Society group	Oct 2022			
INFORMS Annual Meeting. Fairness in Sequential Decision Making	Oct 2022			
Envisioning Communities: A Participatory Approach to AI for Social Good				
MIT. AI Ethics group	Sep 2022			
Women's Forum. Women4AI Daring Circle workshop	Jun 2022			
Robust Reinforcement Learning Under Minimax Regret for Green				
Security Google Research India. AI for Social Good research group	Jan 2022			

	PAWS: AI to Predict and Plan Against Poaching ICCB. International Congress for Conservation Biology IUCN WCC. World Conservation Congress WILDLABS. Tech Tutors: Season Three AI for Climate. Mexico Talk Series powered by Huawei SMART Partnership. International Women's Day Webinar WWF. Webinar on SMART AI LA. Earth Summit	Dec 2021 Sep 2021 Sep 2021 Jul 2021 Mar 2021 Apr 2020 Apr 2021
	Dual-Mandate Patrols: Multi-Armed Bandits for Green Securi Beijing Academy of Artificial Intelligence.	Mar 2021
	University College London. AI Society	Feb 2021
Invited Panels	Hertz Foundation Workshop. AI Science and Policy, moderator panelists: Jacob Steinhardt, Julie Owono, Jessica Fjeld	Jul 2022
	South by Southwest (SXSW). AI for Wildlife, panelist	Mar 2021
	Harvard CRCS. AI for Social Impact, moderator panelists: Susan Murphy, Erez Yoeli, Desmond Patton	Mar 2020
GUEST LECTURES	Vanderbilt. AI for Social Impact	Spring 2024
	Cornell Tech. CS 6382. Data Science for Social Change	Fall 2023
	Cornell Tech. ORIE 5355/INFO 5370. Applied Data Science: Decision-mak	
	prediction Hamand CS 182 Artificial Intelligence	Fall 2023 Fall 2023
	Harvard. CS 182. Artificial Intelligence Cornell. INFO 6960. Data Science for Global Development	Spring 2023
	MIT. 15 076. Analytics for a Better World	Spring 2023 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 Impact	Spring 2022
	UPenn Wharton. OIDD 941. Recent Advances in Data-Driven Decision-Ma	aking Spring
	2022	G : 2022
	Harvard. CS 96. Machine Learning for Social Impact	Spring 2022
	Cornell Tech. ORIE 5355/INFO 5370. People, Data, Systems Harvard Business School. HBSMBA 2231. From Data to Decisions	Fall 2021 Fall 2021
	Wellesley. CS 115. Computing for the Socio-Techno Web	Fall 2021
	Australian National University. CECS8001. Building Cyber-Physical Syst	
	University of Pittsburgh. CS 1699. AI for Good: Ethics and Implications	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

Students Advised \rightarrow At Harvard College

Vincent Börsch-Supan '25 Sep 2022 -Jun 2022 - Dec 2022Alejandra Perea Rojas '24 Christopher Ong '23 Spring 2022 April Chen '22 Summer 2021

Adobe Research Women-In-Technology Scholarship Winner

Ezenia Diaz-Lembert '23 Spring 2021

Emilia Cabrera '21 Sep 2020 - Dec 2021

Thesis: Protecting the Lion's Share: Mitigating Illegal Wildlife Poaching with Multi-Agent Reinforcement Learning

Rachel Guo '22 Jun 2020 - May 2023

 $NCWIT\ Collegiate\ Award\ Winner$

CRA Outstanding Undergraduate Researcher Award — Honorable Mention

Harvard Hoopes Prize for Outstanding Thesis

NSF Graduate Research Fellowship

Thesis: On the Effect of Ranger Patrols on Deterring Poaching: A Bayesian

Fall 2020

Spring 2017

Approach for Causal Inference Using Field Tests as an Instrument

Next step: Stanford ICME PhD student

TEACHING EXPERIENCE

Harvard University

Head Teaching Fellow CS 182: Artificial Intelligence

Harvard Derek Bok Certificate of Distinction in Teaching

Dartmouth College

\rightarrow Teaching Assistant, Department of Computer Science	
CS 11: Foundations of Applied Computer Science, head TA	Spring 2018
CS 1: Intro to Programming and Computation	Spring 2018
CS 1: Intro to Programming and Computation	Fall 2017
CS 31: Algorithms	Winter 2017
CS 1: Intro to Programming and Computation	Spring 2017
CS 10: Object-Oriented Programming	Spring 2016
CS 1: Intro to Programming and Computation	Winter 2016
CS 1: Intro to Programming and Computation	Fall 2015
CS 10: Object-Oriented Programming	Spring 2015
\rightarrow Teaching Assistant, Tuck School of Business	
Tuck FWP: Fundamentals of Web Programming	Spring 2017

FUNDING: Proposals and

AWARDS

Lily Xu. Siebel Scholar, awarded 2023. \$35,000

Tuck DSA: Data Structures and Analytics

Co-I (submitted as PhD student, with 0% funding). 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

PROFESSIONAL SERVICE Mechanism Design for Social Good (MD4SG) Nonprofit incorporation and Executive Director recruitment, lead Apr 2023 – MD4SG initiative-wide co-organizer with Charles Cui, Francisco J. Marmolejo Cossio, George Obaido, Matthew Olckers, and Ana-Andrea Stoica; previously with Rediet Abebe, Irene Lo, and Wanyi Li Community Engagement team, founder and co-lead Oct 2020 – Apr 2021 Working Group on Environment, co-founder and co-organizer Jan 2020 – Apr 2021 Workshop Organization Co-organizer, Al-Assisted Decision Making for Conservation Workshop Organizer, SMART/PAWS Workshop. Rio Bravo, Belize Aug 2022 Lead organizer, Harvard CRCS Rising Stars Workshop Mar 2020 Co-organizer, Computational Sustainability Doctoral Consortium Oct 2019 with Priya Donti, Genevieve Flaspohler, Aaron Ferber, and Sebastian Ament Tutorials Lead organizer, AI for Social Impact tutorial @ EAAMO oct 2023 with Emily Aiken, Priya Donti, Nikhil Garg, and Paul Gölz Panels Co-organizer and co-moderator. The Future of AI for Social Impact Apr 2022 panelists: Fei Fang, Lynn Kaack, Danaë Metaxa, Bryan Wilder Conference Event Organization Social co-chair, ACM EAAMO'23 Oct 2023 Social co-chair, ACM EAAMO'21 Oct 2021 Social co-chair, ACM EAAMO'21 Oct 2021 Social co-chair, ACM EAAMO'21 Social co-chair, ACM EAAMO'25 Social co-c
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 with Priya Donti, Genevieve Flaspohler, Aaron Ferber, and Sebastian Ament Tutorials Lead organizer, AI for Social Impact tutorial © EAAMO with Emily Aiken, Priya Donti, Nikhil Garg, and Paul Gölz Panels Co-organizer and co-moderator. The Future of AI for Social Impact panelists: Fei Fang, Lynn Kaack, Danaë Metaxa, Bryan Wilder Conference Event Organization Social co-chair, ACM EAAMO'22 Social co-chair, ACM EAAMO'21 Social co-chair, Fourth Workshop on MD4SG Spring 2022 Seminar Organization Co-organizer, Harvard CRCS Rising Stars Speaker Series Apr 2021
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 Sebastian Ament Tutorials Lead organizer, AI for Social Impact tutorial © EAAMO with Emily Aiken, Priya Donti, Nikhil Garg, and Paul Gölz Panels Co-organizer and co-moderator. The Future of AI for Social Impact panelists: Fei Fang, Lynn Kaack, Danaë Metaxa, Bryan Wilder 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 Seminar Organization Co-organizer, Harvard CRCS Social Impact Seminar Series Spring 2022 Co-organizer, Harvard CRCS Rising Stars Speaker Series Aug 2021
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 Sebastian Ament Tutorials Lead organizer, AI for Social Impact tutorial © EAAMO with Emily Aiken, Priya Donti, Nikhil Garg, and Paul Gölz Panels Co-organizer and co-moderator. The Future of AI for Social Impact panelists: Fei Fang, Lynn Kaack, Danaë Metaxa, Bryan Wilder 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 Seminar Organization Co-organizer, Harvard CRCS Social Impact Seminar Series Spring 2022 Co-organizer, Harvard CRCS Rising Stars Speaker Series Aug 2021
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Co-organizer, Harvard CRCS Social Impact Seminar Series Spring 2022 Co-organizer, Harvard CRCS Rising Stars Speaker Series Apr 2021
Co-organizer, Harvard CRCS Rising Stars Speaker Series Apr 2021
Co-organizer, Compoust Open Graduate Seminar (COGS) Spring 2020
Program Committee (Reviewing)
\rightarrow Conferences
AIES. Artificial Intelligence, Ethics, and Society 2022, 2023 AAAI. AAAI Conference on Artificial Intelligence 2023
AAAI Conference on Artificial Intelligence 2020, 2021, 2022
COMPASS. ACM SIGCAS Conference on Computing and Sustainable Societies 2021
EAAMO. ACM Equity and Access in Algorithms, Mechanisms, and Optimization 2021, 2022, 2023
FAcc T. ACM Conference on Fairness, Accountability, and Transparency 2022, 2023
IAAI. AAAI Innovative Applications of Artificial Intelligence 2023
NeurIPS. Neural Information Processing Systems 2023
UAI. Uncertainty in Artificial Intelligence 2023
ightarrow Workshops
AI for Wildlife Conservation @ SIGSPATIAL 2023
Autonomous Agents for Social Good (AASG) @ AAMAS 2021, 2023
AI for Social Good @ AAAI 2023 Data-Driven Humanitarian Mapping @ KDD 2020, 2021, 2022

	Regulating Machine Learning @ NeurIPS Computational Sustainability @ NeurIPS Cooperative AI Workshop @ NeurIPS Black in AI Workshop @ NeurIPS Machine Learning for the Developing World (ML4D) @ NeurIPS Machine Learning for Public Health @ NeurIPS Resistance AI @ NeurIPS AI for Social Good @ IJCAI Mechanism Design for Social Good (MD4SG) AI for Social Good @ Harvard CRCS	2023 2023 2022 0, 2021, 2022 2020, 2021 2020 2020 2020 2020 2020
	Competition Selection Committee AI2, EarthRanger Conservation Tech Award	2022, 2023
	Reviewer Deep Learning Indaba Caltech Computer Vision for Ecology (CV4Ecology) Summer School ICML, subreviewer NeurIPS, subreviewer IJCAI Special Track on CompSust and Human Well-being, subreviewer COMPASS, subreviewer Bloomberg Data for Good Exchange (D4GX), subreviewer	2022 2022 2021 2020 2020 2019 2019
OUTREACH	Harvard. CS 290, Navigating grad school, panelist Harvard. Tech for Social Good and Harvard Computer Society Harvard SEAS. PhD Admitted Students Open House, panelist Harvard SEAS. Research Labs Open House GirlsComputingLeague. AInnovation Business Summit IEEE Computer Society. Women in Computing, Kerala Chapter Data Science Africa. Tutorial on MD4SG and the Environment Ledyard Canoe Club. Inclusivity in the Outdoors Dartmouth. Women in Computer Science, panelist Harvard SEAS. Diversity, Inclusivity, and Belonging, panelist Center for Initiatives in Jewish Education. High school student visit World Science Festival. Science and Storytime L.A. Unified School District (LAUSD). African American Family Day Zoo Magnet High School. College and Career Day	Nov 2023 Mar 2023 Mar 2021 Nov 2020 Sep 2020 Sep 2020 Jul 2020 Jul 2020 May 2020 May 2020 Mar 2020 Jun 2019 May 2019 Nov 2018
	Mentoring Harvard University. InTouch Peer Mentor Harvard University. Women in STEM Mentor Dartmouth College. Women in Computer Science Volunteering Harvard SEAS. A Guide to Your PhD Harvard University. Project Teach Cambridge Public Schools. STEAM It Up! Hustle N' Code. Hackathon, technical lead Hustle N' Code is a Los Angeles hackathon for youth in public housin My team won first place, and the four students each received a laptor	-

Press

Case Studies

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

Podcasts

Ecochat. AI for Conservation - Using Machine Learning to Stop Poaching

Cold Call (Harvard Business School podcast). Can AI and Machine Learning Help Park
Rangers Prevent Poaching?

2023

INFORMS Resoundingly Human Podcast.

May 2022

Rethinking Economics NL. Disruptive Technologies podcast series.

May 2021

Oct 2022

Video

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

Articles

Business Insider. Conservationists are using artificial intelligence to map out the best ways for saving threatened wildlife and resources $Oct\ 2022$

Oxford Science. AI in conservation: a modern-day solution to the biodiversity crisis? March 2022

The Hill. These new technologies could transform wildlife conservation. Feb 2022

Harvard SEAS. Computer Conservation. Nov 2021

Alhub. Interview with Lily Xu. Oct 2021

Engadagt PAWS anti-possibing Al predicts where illegal bunters will show up next. Mar

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

Mongabay. Where to patrol next: 'Netflix' of ranger AI serves up poaching predictions.

Nov 2020

Harvard SEAS.Preventing poaching.Jun 2020BBC Sounds.How tech is tackling wildlife trafficking.Jun 2020BBC World Service.Using technology to take on poachers.Aug 2019USC Viterbi Magazine.AI is for Animals.Apr 2019

References

Milind Tambe milind_tambe@harvard.edu

Gordon McKay Professor of Computer Science, Harvard University Director of AI for Social Good, Google Research

Yiling Chen yiling@seas.harvard.edu

Gordon McKay Professor of Computer Science, Harvard University

Andrew Davies andrew_davies@fas.harvard.edu

Assistant Professor of Organismic and Evolutionary Biology, Harvard University

Fei Fang feifang@cmu.edu

Associate Professor, Carnegie Mellon University

Nikhil Garg ngarg@cornell.edu

Assistant Professor, Cornell Tech