

Lily Xu

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lily-x.github.io

EDUCATION	Harvard University. Cambridge, MA PhD Candidate in Computer Science <i>Advisor: Milind Tambe</i> <i>Thesis committee: Dimitris Bertsimas, Yiling Chen, Andrew Davies</i> Dartmouth College. Hanover, NH A.B. with Honors in Computer Science, minor in Spanish <i>Magna cum laude</i>	expected 2024 2018
HONORS	Siebel Scholar <i>Grant awarded for academic excellence and demonstrated leadership.</i> Rising Star in Data Science (UChicago) Rising Star in EECS (GATech) Rising Star in Management Science and Engineering (Stanford MS&E) Google PhD Fellowship <i>One of 13 awardees in machine learning globally.</i> INFORMS Doing Good with Good OR Competition Winner <i>Recognizes the “most exciting work performed by students in partnership with public and private organizations that yields tangible and beneficial outcomes for individuals, communities, and organizations”.</i> AAAI Best Paper Award Runner Up <i>3 best papers and 3 runner-ups were selected out of 9,034 submissions and 1,692 accepted papers.</i> Harvard University Derek Bok Certificate of Distinction in Teaching Certificate of Appreciation from the SMART Partnership <i>Recognition for contribution to developing PAWS system.</i> Five Citations for Academic Excellence at Dartmouth College <i>Special distinction rarely awarded by faculty members “for meritorious characteristics not indicated adequately by academic grades”, received across five computer science and Spanish courses.</i> Adobe Women-In-Technology Scholarship – Honorable Mention	2024 2023 2023 2023 2022 2021 2021 2021 2019 2014 – 2018 2017
NON-PROFIT SERVICE	SMART Conservation Partnership. AI Lead <i>I work with SMART to effectively integrate AI research into their conservation management activities. The SMART Partnership is the global leader in protected area solutions, consisting of 8 leading conservation NGOs: WWF, WCS, Wildlife Protection Solutions, Frankfurt Zoological Society, ZSL, NC Zoo, Panthera, and Re:wild.</i>	2022 – present
WORK EXPERIENCE	Google Research. India, AI for Social Good lab <i>Student Researcher</i> Google. Seattle, WA <i>Software Engineering Intern</i> Dyn, Inc. Hanover, NH <i>Data Analytics Research Intern</i>	Spring 2022 Summer 2017 Spring 2016

PREPRINTS

* indicates equal contribution

† indicates undergraduate I advised

(α - β) 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

(α - β) 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

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

INVITED TALKS

Does not include contributed conference and workshop talks

Major talks underlined

High-stakes decisions from low-quality data: AI decision-making for planetary health

<i>Caltech.</i> FALCON Research Group Seminar	Nov 2023
<i>UChicago.</i> Rising Stars in Data Science	Nov 2023
<i>UC Berkeley.</i> Data Science Toolbox Series	Oct 2023
<i>INFORMS Annual Meeting.</i> ML for Social Good session	Oct 2023
<i>Cornell ORIE.</i> Young Researchers Workshop	Oct 2023
<i>J.P. Morgan.</i> AI Research group	Oct 2023
<i>Stanford MS&E.</i> Rising Stars in MS&E	May 2023

Causal AI and Conservation

<i>ICCB.</i> Int'l Conference on Conservation Biology, Kigali, Rwanda	Jul 2023
<i>Microsoft Research New England.</i> <u>Machine Learning Ideas seminar</u>	Jun 2023
<i>United Nations ITU.</i> AI for Good Summit	Jun 2023
<i>WWF.</i> <u>Fuller Seminar Series on Conservation AI</u>	Apr 2023

Minimax Regret Optimization: Robust Planning for Conservation and Maternal Health

<i>Berkeley MARL.</i> Multi-Agent Learning Seminar	Mar 2023
<i>Brown University.</i> Algorithmic Game Theory group	Mar 2023

Learning and Planning Under Uncertainty for Wildlife Conservation

<i>Harvard Kennedy School.</i> "Leading in AI" Executive Education	Jul 2023
<i>Penn State.</i> CSRAI Young Achievers Symposium	Mar 2023
<i>UC Berkeley.</i> Global Policy Lab	Feb 2023
<i>Centro de Analítica para Políticas Públicas (CAPP).</i> (in Spanish)	Dec 2022
<i>Georgia Tech.</i> ISyE department seminar	Nov 2022
<i>Analytics for a Better World.</i> <u>ABW Webinar Series</u>	Sep 2022
<i>Harvard Kennedy School.</i> "Leading in AI" Executive Education	Jul 2022
<i>UC Berkeley.</i> Ethics and Practices of Algorithmic Conservation	Apr 2022
<i>UCL.</i> Climate Hack AI Competition, <i>keynote</i>	Mar 2022
<i>Harvard University.</i> HCI Colloquium: AI-Assisted Decision-Making	Feb 2022
<i>Pasteur's Quadrant.</i> Seminar Series	Feb 2022
<i>INFORMS.</i> <u>Doing Good with Good OR Finalists</u>	Oct 2021

Ranked Prioritization of Groups in Combinatorial Bandit Allocation

<i>Sony.</i> Computer Science Laboratories (CSL) Paris	Oct 2022
<i>Stanford.</i> Computing & Society group	Oct 2022
<i>INFORMS Annual Meeting.</i> Fairness in Sequential Decision Making	Oct 2022

Envisioning Communities: A Participatory Approach to AI for Social Good

<i>MIT.</i> AI Ethics group	Sep 2022
<i>Women's Forum.</i> Women4AI Daring Circle workshop	Jun 2022

Robust Reinforcement Learning Under Minimax Regret for Green Security

<i>Google Research India.</i> AI for Social Good research group	Jan 2022
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PAWS: AI to Predict and Plan Against Poaching

<i>ICCB.</i> International Congress for Conservation Biology	Dec 2021
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<i>IUCN WCC.</i>	<i>World Conservation Congress</i>	Sep 2021
<i>WILDLABS.</i>	<i>Tech Tutors: Season Three</i>	Sep 2021
<i>AI for Climate.</i>	<i>Mexico Talk Series powered by Huawei</i>	Jul 2021
<i>SMART Partnership.</i>	<i>International Women's Day Webinar</i>	Mar 2021
<i>WWF.</i>	<i>Webinar on SMART</i>	Apr 2020
<i>AI LA.</i>	<i>Earth Summit</i>	Apr 2021

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

<i>Beijing Academy of Artificial Intelligence.</i>	Mar 2021
<i>University College London. AI Society</i>	Feb 2021

INVITED PANELS	<i>Hertz Foundation Workshop.</i>	<i>AI Science and Policy, moderator</i>	Jul 2022
		panelists: Jacob Steinhardt, Julie Owono, Jessica Fjeld	
	<i>South by Southwest (SXSW).</i>	<i>AI for Wildlife, panelist</i>	Mar 2021
	<i>Harvard CRCS.</i>	<i>AI for Social Impact, moderator</i>	Mar 2020
		panelists: Susan Murphy, Erez Yoeli, Desmond Patton	

GUEST LECTURES	<i>Cornell Tech.</i>	<i>CS 6382. Data Science for Social Change</i>	Fall 2023
	<i>Cornell Tech.</i>	<i>ORIE 5355/INFO 5370. Applied Data Science: Decision-making beyond prediction</i>	Fall 2023
	<i>Harvard.</i>	<i>CS 182. Artificial Intelligence</i>	Fall 2023
	<i>Cornell.</i>	<i>INFO 6960. Data Science for Global Development</i>	Spring 2023
	<i>MIT.</i>	<i>15 076. Analytics for a Better World</i>	Spring 2023
	<i>Harvard.</i>	<i>CS 96. Machine Learning for Social Impact</i>	Spring 2023
	<i>Wellesley.</i>	<i>CS 115. Computing for the Socio-Techno Web</i>	Fall 2022
	<i>Ohio State.</i>	<i>CSE 3521. Survey of Artificial Intelligence I</i>	Fall 2022
	<i>Harvard.</i>	<i>CS 288. AI for Social Impact class</i>	Fall 2022
	<i>University of Southern California.</i>	<i>ISE 599. Analytics for Social Impact</i>	Spring 2022
	<i>UPenn Wharton.</i>	<i>OIDD 941. Recent Advances in Data-Driven Decision-Making</i>	Spring 2022
	<i>Harvard.</i>	<i>CS 96. Machine Learning for Social Impact</i>	Spring 2022
	<i>Cornell Tech.</i>	<i>ORIE 5355/INFO 5370. People, Data, Systems</i>	Fall 2021
	<i>Harvard Business School.</i>	<i>HBSMBA 2231. From Data to Decisions</i>	Fall 2021
	<i>Wellesley.</i>	<i>CS 115. Computing for the Socio-Techno Web</i>	Fall 2021
	<i>Australian National University.</i>	<i>CECS8001. Building Cyber-Physical Systems</i>	Fall 2021
	<i>University of Pittsburgh.</i>	<i>CS 1699. AI for Good: Ethics and Implications</i>	Spring 2021
	<i>University of Michigan.</i>	<i>SI 431. Algorithms and Society</i>	Spring 2021
	<i>Harvard.</i>	<i>CS 182. Artificial Intelligence</i>	Fall 2020
	<i>Dartmouth.</i>	<i>CS 11. Foundations of Applied Computer Science</i>	Spring 2018

STUDENTS ADVISED → *At Harvard College*

Vincent Börsch-Supan '25	Sep 2022 –
Alejandra Perea Rojas '24	Jun 2022 – Dec 2022
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
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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 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 Fall 2020
Harvard Derek Bok Certificate of Distinction in Teaching

Dartmouth College
→ *Teaching Assistant, Department of Computer Science*

CS 11: Foundations of Applied Computer Science, <i>head TA</i>	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

→ *Teaching Assistant, Tuck School of Business*

Tuck FWP: Fundamentals of Web Programming	Spring 2017
Tuck DSA: Data Structures and Analytics	Spring 2017

FUNDING: PROPOSALS AND AWARDS

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

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 Mar 2021 –
with Charles Cui, Francisco J. Marmolejo Cossío, 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, AI-Assisted Decision Making for Conservation Workshop Oct 2022
with Esther Rolf and Milind Tambe
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 Gözl

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'22 Oct 2022
Social co-chair, ACM EAAMO'21 Oct 2021
Social co-chair, Fourth Workshop on MD4SG Aug 2020

Seminar Organization

Co-organizer, Harvard CRCS Social Impact Seminar Series Spring 2022
Co-organizer, Harvard CRCS Rising Stars Speaker Series Apr 2021
Co-organizer, CompSust Open Graduate Seminar (COGS) Spring 2020

Program Committee (Reviewing)

→ Conferences

AIES. Artificial Intelligence, Ethics, and Society 2022, 2023
AAAI. AAAI Conference on Artificial Intelligence 2023
AAAI AISI track. 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
FAccT. 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

→ 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	2023
Computational Sustainability @ NeurIPS	2023
Cooperative AI Workshop @ NeurIPS	2022
Black in AI Workshop @ NeurIPS	2020, 2021, 2022
Machine Learning for the Developing World (ML4D) @ NeurIPS	2020, 2021
Machine Learning for Public Health @ NeurIPS	2021
Resistance AI @ NeurIPS	2020
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
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Reviewer

Deep Learning Indaba	2022
Caltech Computer Vision for Ecology (CV4Ecology) Summer School	2022
ICML, <i>subreviewer</i>	2021
NeurIPS, <i>subreviewer</i>	2020
IJCAI Special Track on CompSust and Human Well-being, <i>subreviewer</i>	2020
COMPASS, <i>subreviewer</i>	2019
Bloomberg Data for Good Exchange (D4GX), <i>subreviewer</i>	2019

OUTREACH

Speaking

<i>Harvard.</i> CS 290, Navigating grad school, <i>panelist</i>	Nov 2023
<i>Harvard.</i> Tech for Social Good and Harvard Computer Society	Mar 2023
<i>Harvard SEAS.</i> PhD Admitted Students Open House, <i>panelist</i>	Mar 2021
<i>Harvard SEAS.</i> Research Labs Open House	Nov 2020
<i>GirlsComputingLeague.</i> AIInnovation Business Summit	Sep 2020
<i>IEEE Computer Society.</i> Women in Computing, Kerala Chapter	Sep 2020
<i>Data Science Africa.</i> Tutorial on MD4SG and the Environment	Jul 2020
<i>Ledyard Canoe Club.</i> Inclusivity in the Outdoors	Jul 2020
<i>Dartmouth.</i> Women in Computer Science, <i>panelist</i>	May 2020
<i>Harvard SEAS.</i> Diversity, Inclusivity, and Belonging, <i>panelist</i>	May 2020
<i>Center for Initiatives in Jewish Education.</i> High school student visit	Mar 2020
<i>World Science Festival.</i> Science and Storytime	Jun 2019
<i>L.A. Unified School District (LAUSD).</i> African American Family Day	May 2019
<i>Zoo Magnet High School.</i> College and Career Day	Nov 2018

Mentoring

<i>Harvard University.</i> InTouch Peer Mentor	2020 –
<i>Harvard University.</i> Women in STEM Mentor	2019 – 2020
<i>Dartmouth College.</i> Women in Computer Science	2017 – 2018

Volunteering

<i>Harvard SEAS.</i> A Guide to Your PhD	Oct 2020
<i>Harvard University.</i> Project Teach	Apr 2020
<i>Cambridge Public Schools.</i> STEAM It Up!	Oct 2019
<i>Hustle N' Code.</i> Hackathon, <i>technical lead</i>	Dec 2018
<i>Hustle N' Code is a Los Angeles hackathon for youth in public housing.</i>	
<i>My team won first place, and the four students each received a laptop.</i>	

Case Studies

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

Podcasts

Ecochat. AI for Conservation - Using Machine Learning to Stop Poaching 2023

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

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

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 2020

BBC Sounds. How tech is tackling wildlife trafficking. Jun 2020

BBC World Service. Using technology to take on poachers. Aug 2019

USC Viterbi Magazine. AI is for Animals. Apr 2019

REFERENCES

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Director of AI for Social Good, Google Research

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Gordon McKay Professor of Computer Science, Harvard University

Andrew Davies andrew_davies@fas.harvard.edu

Assistant Professor of Organismic and Evolutionary Biology, Harvard University

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Associate Professor, Carnegie Mellon University

Nikhil Garg ngarg@cornell.edu

Assistant Professor, Cornell Tech