

Serena Booth

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Google Scholar

I am a human-AI interaction researcher with expertise in reinforcement learning and learning from human feedback. I study the design of better AI systems through the interactions of specifying, inspecting, modeling, and governing behaviors. I have also worked in the U.S. Senate for the Banking Committee to advance U.S. AI regulation in high-risk applications.

Education/Academic Experience

- 2025 Assistant Professor, Department of Computer Science, Brown University.
- 2025 Senior Law and Society Fellow, Simons Institute for the Theory of Computing, UC Berkeley.
- 2023–2025 AAAS Science and Technology Policy Fellow (STPF), with a focus on Artificial Intelligence.
I spent eighteen months working in the U.S. Senate on AI Policy through a highly-selective ($\approx 3\%$) fellowship.
I worked for the Senate Committee on Banking, Housing, and Urban Affairs, under Sen. Brown (D-OH).
- 2018–2023 Ph.D. & S.M., Computer Science, CSAIL, Massachusetts Institute of Technology, *GPA: 5.0/5.0*.
I was a member of the [Interactive Robotics Group](#), advised by Prof. Julie Shah.
I was sponsored by an NSF GRFP and an MIT Jacobs Presidential Fellowship.
Ph.D. Thesis: *Building Blocks for Human-AI Interaction: Specify, Model, Inspect, and Revise*
- 2021–2022 Visiting Researcher, University of Texas, Austin.
With Dr. Brad Knox, Dr. Alessandro Allievi, Prof. Scott Niekum, and Prof. Peter Stone
- 2016 B.A., Computer Science with in-field Highest Honors, Harvard University, *GPA: 3.8/4.0*.
Awarded Thomas T. Hoopes thesis prize for excellence in undergraduate research.
Thesis: *Piggybacking Robots: Overtrust in Human-robot Security Dynamics*

Awards, Grants, & Recognition

- 2025–2027 CIFAR Azrieli Global Scholar, *Innovation, Equity & the Future of Prosperity*.
- 2025–2027 Affiliate, Berkman Klein Center For Internet & Society, Harvard University.
- 2018–2023 National Science Foundation Graduate Research Fellowship (NSF GRFP), $\approx \$150,000$.
 - 2023 HRI Pioneer, *Human-robot interaction “premier forum” for graduate students*.
 - 2022 EECS Rising Star, *A selective and intensive workshop for underrepresented genders in EECS*.
 - 2018 MIT Jacobs Presidential Fellowship, $\approx \$100,000$.
 - Finalist, Paul and Daisy Soros Fellowship for New Americans.
- 2016 Thomas T. Hoopes Prize for Excellence in Undergraduate Research, Harvard University.
- 2011 National Winner, Aspirations in Computing, NCWIT.

GIRAFFE Lab Funding

- 2025 UK AI Security Institute, *\$209,086 USD, Support for “Models of Humans for Adjudicating Debates”*.
- 2025 CIFAR Azrieli Global Scholar for Innovation, Equity, and Prosperity, *\$100,000 CAD, general support*.
- 2025 Survival and Flourishing Fund: Fairness Track, *\$326,000 USD, general support*.

Preprints

- 2025 Stephane Hatgis-Kessell, W. Bradley Knox, **Serena Booth**, Scott Niekum, & Peter Stone, *Influencing Humans to Conform to Preference Models for RLHF*, arxiv.org/abs/2501.06416.
- 2025 Kim Baraka, Ifrah Idrees, Taylor Kessler Faulkner, ..., **Serena Booth**, ..., Xuesu Xiao, *Human-Interactive Robot Learning: Definition, Challenges, and Recommendations*.

Conference & Journal Publications

- RLC '25 Calarina Muslimani, Kerrick Johnstonbaugh, Suyog Chandramouli, **Serena Booth**, W. Bradley Knox, & Matthew Taylor, *Towards Improving Reward Design in RL: A Reward Alignment Metric for RL Practitioners*, Reinforcement Learning Conference (RLC).
Outstanding Paper for Emerging Topics in Reinforcement Learning
- RLC '25 Septia Rani, **Serena Booth**, Sarath Sreedharan, *Goals vs. Rewards: A Comparative Study of Objective Specification Mechanisms*, Reinforcement Learning Conference (RLC).
- ICML '25 **Serena Booth**, *Position: Strong Consumer Protection is an Inalienable Defense for AI Safety*, International Conference on Machine Learning.
- THRI '25 Kim Baraka, Ifrah Idrees, Taylor Kessler Faulkner, . . . , **Serena Booth**, . . . , Xuesu Xiao, *Human-Interactive Robot Learning: Definition, Challenges, and Recommendations*, Transactions on Human-Robot Interaction (THRI).
- TMLR '24 W. Bradley Knox, Stephane Hatgis-Kessell, **Serena Booth**, Scott Niekum, Peter Stone, & Alessandro Allievi, *Models of Human Preference for Learning Reward Functions*, arxiv.org/abs/2206.02231, Transactions on Machine Learning Research.
- AAAI '24 W. Bradley Knox, Stephane Hatgis-Kessell, Sigurdur Orn Adalgeirsson, **Serena Booth**, Anca Dragan, Peter Stone, & Scott Niekum, *Learning Optimal Advantage from Preferences and Mistaking it for Reward*, arxiv.org/abs/2310.02456, AAAI Conference on Artificial Intelligence.
- AAAI '24 Allen Chang, Matthew Fontaine, **Serena Booth**, Maja Mataric, & Stefanos Nikolaidis, *Quality-Diversity Generative Sampling for Learning with Synthetic Data*, AAAI Conference on Artificial Intelligence.
- AAAI '23 **Serena Booth**, W. Bradley Knox, Julie Shah, Scott Niekum, Peter Stone, & Alessandro Allievi, *The Perils of Trial-and-Error Reward Design: Misdesign through Overfitting and Invalid Task Specifications*, AAAI Conference on Artificial Intelligence. Selected for oral presentation.
– Webpage: slbooth.com/Reward_Design_Perils
- RLDM '22 **Serena Booth**, W. Bradley Knox, Julie Shah, Scott Niekum, Peter Stone, & Alessandro Allievi, *Extended Abstract: Graduate Student Descent Considered Harmful? A Proposal for Studying Overfitting in Reward Functions*, Multidisciplinary Conference on Reinforcement Learning and Decision Making.
- RLDM '22 W. Bradley Knox, Stephane Hatgis-Kessell, **Serena Booth**, Scott Niekum, Peter Stone, & Alessandro Allievi, *Spotlight, Extended Abstract: Partial Return Poorly Explains Human Preferences*, Multidisciplinary Conference on Reinforcement Learning and Decision Making. Selected for oral presentation.
- HRI '22 **Serena Booth**, Sanjana Sharma, Sarah Chung, Julie Shah, & Elena L. Glassman, *Revisiting Human-Robot Teaching and Learning Through the Lens of Human Concept Learning Theory*, ACM/IEEE International Conference on Human-Robot Interaction (HRI).
– Webpage: slbooth.com/HRI_Concept_Learning
– Press: <https://news.mit.edu/2022/humans-understand-robots-psychology-0302>
- AAAI '22 Yilun Zhou, **Serena Booth**, Marco Ribeiro, & Julie Shah, *Do Feature Attribution Methods Correctly Attribute Features?*, AAAI Conference on Artificial Intelligence.
– Webpage: yilunzhou.github.io/feature-attribution-evaluation
– Press: <https://news.mit.edu/2022/test-machine-learning-models-work-0118>
- AAAI '21 **Serena Booth***, Yilun Zhou*, Ankit Shah, & Julie Shah, *BAYES-TREX: A Bayesian Sampling Approach to Model Transparency by Example*, AAAI Conference on Artificial Intelligence. *Equal Contribution.
– Webpage: slbooth.com/BayesTrEx
– Press: <https://news.mit.edu/2021/more-transparency-understanding-machine-behaviors-bayes-trex-0322>
- CoRL '21 Yilun Zhou, **Serena Booth**, Nadia Figueroa, & Julie Shah, *RoCUS: Robot Controller Understanding via Sampling*, Conference on Robot Learning (CoRL).
– Webpage: yilunzhou.github.io/RoCUS

- AIES '21 Aspen Hopkins* and **Serena Booth***, *Machine Learning Practice Outside Big Tech: How Resource Constraints Challenge Responsible Development*, AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES). *Equal Contribution. Selected for oral presentation (9.6%).
- Frontiers '21 Alan F T Winfield, **Serena Booth**, Louise A Dennis, Takashi Egawa, Helen Hastie, Naomi Jacobs, Roderick Muttram, Joanna I Olszewska, Fahimeh Rajabiyazdi, Andreas Theodorou, Mark Underwood, Robert H Wortham, and Eleanor Watson, *IEEE P7001: A Proposed Standard on Transparency*, Frontiers in Robotics and AI, Ethics in Robotics and Artificial Intelligence.
- Supplemental paper to our published IEEE standard: “IEEE Standard for Transparency of Autonomous Systems,” in IEEE Std 7001-2021, pp. 1-54, 4 March 2022, doi: 10.1109/IEEESTD.2022.9726144.
- IJCAI '19 **Serena Booth**, Christian Muise, & Julie Shah, *Evaluating the Interpretability of the Knowledge Compilation Map: Communicating Logical Statements Effectively*, International Joint Conference on AI (IJCAI).
- Webpage: slbooth.com/LogicInterpret
- HRI '17 **Serena Booth**, James Tompkin, Hanspeter Pfister, Jim Waldo, Krzysztof Gajos, & Radhika Nagpal, *Piggybacking Robots: Human-robot Overtrust in University Dormitory Security*, ACM/IEEE International Conference on Human-Robot Interaction (HRI).
- Webpage with video: slbooth.com/PiggybackingRobots
 - Press: Vice, PhD Comics #2033, FujiTV (Japan), Soonish (Weinersmith and Weinersmith, 2017).

Workshop Publications

- HRI '25 Septia Rani, **Serena Booth**, & Sarath Sreedharan, *Goals vs. Rewards: Towards a Comparative Study of Objective Specification Mechanisms*, HRI Late Breaking Reports.
- NeurIPS '24 Calarina Muslimani, Suyog Chandramouli, **Serena Booth**, W. Bradley Knox, Matthew Taylor, *Analyzing Reward Functions via Trajectory Alignment*, NeurIPS Behavioral ML Workshop.
- Also presented at AAAI 2025 Bridge Program on Collaborative AI and Modeling of Humans.
- NeurIPS '24 Tiffany Horter, **Serena Booth**, Vinitha Gadiraju, *Helping People Predict Agent Behaviors by Operationalizing the Variation Theory of Learning*, NeurIPS Behavioral ML Workshop.
- ICML '23 W. Bradley Knox, Stephane Hatgis-Kessell, Sigurdur Orn Adalgeirsson, **Serena Booth**, Anca Dragan, Peter Stone, & Scott Niekum, *Learning Optimal Advantage from Preferences and Mistaking it for Reward*, 2023 ICML Workshop on The Many Facets of Preference-based Learning (MFPL). Selected for oral presentation.
- HRI '23 Tiffany Horter, Elena Glassman, Julie Shah, & **Serena Booth**, *Varying How We Teach: Adding Contrast Helps Humans Learn about Robot Motions*, 2023 HRI Workshop on Human-Interactive Robot Learning.
- NAACL '22 Yiming Zheng, **Serena Booth**, Julie Shah, & Yilun Zhou, *The Irrationality of Neural Rationale Models*, 2022 NAACL Workshop on Trustworthy Natural Language Processing (TrustNLP).
- NeurIPS '21 Yilun Zhou, **Serena Booth**, Marco Ribeiro, & Julie Shah, *Do Feature Attribution Methods Correctly Attribute Features?*, NeurIPS 2021 XAI4Debugging Workshop. Selected for oral presentation.
- ICRA '21 **Serena Booth**, Sanjana Sharma, Sarah Chung, Julie Shah, & Elena Glassman, *How to Understand Your Robot: A Design Space Informed by Human Concept Learning*, ICRA 2021 Workshop on Social Intelligence in Humans and Robots (SIHR).
- AAAI '20 **Serena Booth***, Ankit Shah*, Yilun Zhou*, Julie Shah, *Sampling Prediction-Matching Examples in Neural Networks: A Probabilistic Programming Approach*, AAAI 2020 Workshop on Statistical Relational Artificial Intelligence (StarAI). *Equal Contribution.
- AAAI '20 Christian Muise, Salomon Wollenstein Betch, **Serena Booth**, Julie Shah, Yasaman Khazaeni, *Modeling Blackbox Agent Behaviour via Knowledge Compilation*, AAAI 2020 Workshop on Plan, Activity, and Intent Recognition (PAIR).

Teaching

- 2020–2022 Socially Responsible Computing (SERC) Scholar, Massachusetts Institute of Technology.
- I have contributed extensively to MIT’s social and ethical responsibilities for computing curricula. Some of my contributions are available on OpenCourseware: Machine Learning ([here](#)), Software Studio ([here](#)).
 - MIT OpenCourseware released a podcast describing some of my work: [ChalkRadio Podcast](#)
 - Designed ethics curriculum for 6.036: *Machine Learning* (Spring 2021, Spring 2022). [MIT News article](#).
 - Advised 6.031: *Software Construction* (Fall 2021), and co-designed ethics curriculum for class.
 - Embedded socially-responsible education materials into 6.170: *Software Studio* (Fall 2020).
 - Guest lecture in 6.170 (2020 & 2021) on Milo Phillips-Brown and Abby Jacques’ Ethics Protocol.
- 2020–2021 Graduate Teaching Fellow, Massachusetts Institute of Technology.
- 24.133: *Experiential Ethics*, Summer 2021 & Summer 2020
A philosophy course to explore ethical and social dimensions of students’ everyday experiences.
 - 6.S897: *Classics of Computer Science*, Spring 2020.
Described by students as a “finishing school” for CS, reviews influential CS papers from 1920-1980.
- 2015–2016 Undergraduate Teaching Fellow, Harvard University.
- CS189: *Autonomous Robot Systems* (Spring 2016).
An introduction to robotics. I migrated the course to TurtleBots and developed six courseworks.
 - CS121: *Theory of Computation* (Fall 2015).
An introduction to CS theory, covering computability and complexity theory.
 - CS1: *Great Ideas in Computer Science* (Spring 2015).
An introductory CS class (a CS50 alternative for non-CS majors); taught in Java.

Mentoring

- 2022–2023 [Human-Robot Interaction] Tiffany Horter, Wellesley.
- 2020–2023 [Explainable AI, co-supervised with Yilun Zhou] Yiming Zheng, MIT.
- 2023 [Algorithmic Fairness, co-supervised with USC Faculty] Allen Chang, USC.
- 2021 [Science Policy] Reagan Zimmerman, MIT.
- 2021 [Science Policy] Emily Levenson, MIT.
- 2020 [Explainable AI, co-supervised with Yilun Zhou] Rene Reyes, MIT.
- 2020 [Explainable AI, co-supervised with Yilun Zhou] Paul Calvetti, MIT.
- 2020 [Explainable AI, co-supervised with Yilun Zhou] Melissa Calvert, MIT.

GIRAFFE Lab Funding

- 2025 UK AI Security Institute, \$209,086 USD, *Support for “Models of Humans for Adjudicating Debates”*.
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- 2025 Survival and Flourishing Fund: Fairness Track, \$326,000 USD, *general support*.

Industry Experience

- 2021–2022 Bosch R&D, Reinforcement Learning for Autonomous Driving Group, Research Intern.
- Working on reinforcement learning and reward design.
 - Collaborating with Dr. Brad Knox, Dr. Alessandro Allievi, Prof. Peter Stone, and Prof. Scott Niekum
- 2016–2018 Google, APM: Associate Product Manager (APM).
- Before graduate school, I worked full time at Google for two years as a product manager.
 - APM II: ARCore, augmented reality SDK. PM’ed 6DoF motion tracking, depth, scene understanding algorithms, and quality, measured by in-lab benchmarking and user-collected telemetry. Scaled ARCore to reach 100M devices.
 - APM I: Google Search. Verticals included cars, motorbikes, lottery, commutes, and dinosaurs.
 - 20% Project: Human-Robot Interaction at Google[X] (2017)

- 2015 Apple, Software Engineering Intern, Engineering for Retail.
 - I prototyped a pre-ARKit augmented reality “Try It On” feature for the Apple Store App.
- 2014 Intuit, Software Engineering Intern, Payments & Commerce Solutions.
- 2011–2012 Imagineer in Behavioral Research, Walt Disney Imagineering Research & Development.
 - Ran field tests at Paris and Orlando Parks; studied hotel towel use patterns and guest distribution in parks.

Additional Academic & Institute Service

- 2025–2026 Area Chair, Human-Robot Interaction (HRI) Conference.
- 2025 Editorial Board, ACM AI Letters.
- 2025 Area Chair, Neural Information Processing Systems (NeurIPS) Position Papers.
- 2025 Special Track Co-Chair, AAAI Special Track on AI for Social Impact (AISI).
- 2024 Workshop Organizer: RL Safety Workshop.
 - Workshop co-located with Reinforcement Learning Conference (RLC) 2024.
- 2023 Workshop Organizer: Variable Autonomy for Human-Robot Teaming (VAT).
 - Workshop co-located with Human-Robot Interaction Conference (HRI) 2023.
- 2019–2023 Secretary (2021-2022), Treasurer (2020-2021), Events Chair (2019-2020), MIT European Club.
 - I help organize a career fair for 1000+ attendees and 100+ European companies and universities.
- 2020 Workshop Organizer: Virtual, Augmented, and Mixed Reality for Human-Robot Interaction.
 - Workshop co-located with Human-Robot Interaction Conference (HRI) 2020.
- 2020 Guest Talk, *Interpretability in Machine Learning*, MIT IAP AI Policy & Technology Workshop.
- 2017–2018 Botball Robotics Competition Judge, NASA Ames.
- 2017 Reality, Virtually, Hackathon Mentor, MIT Media Lab.
- Reviewing TLMR; ICML; AAAI; HRI; CHI; ICRA; RSS; NeurIPS; workshops at these venues and many others.

Science Advocacy

- 2023–2025 AI Policy Fellow, AAAS Science and Technology Policy Fellowship.
 - Senate Committee on Banking, Housing, and Urban Affairs, under Sen. Sherrod Brown (D-OH).
 - Meeting with banks, advocates, and regulators to gather information about their use and approaches to AI.
 - Researching existing regulations in these domains, and seeking to identify regulatory gaps.
 - Writing letters from the Committee to apply public pressure for policy changes.
 - Organizing hearings around AI and technology, particularly in banking and housing.
- 2019–2024 MIT Science Policy Initiative (SPI).
 - I have been an executive member of SPI in many capacities:
 - President, 2021–2022; Vice President 2020–2021, Acting Vice President 2022–2023.
 - I launched State and Local Visit Days to teach students about careers in state and local government.
 - I advocated for the COMPETES and USICA bills, and for the GRAD Caucus [grad-caucus.github.io].
 - Executive Visit Days Chair, 2022–2023.
 - I brought 20 students and postdocs to D.C. to learn about careers and policymaking in federal agencies.
 - Alumni Relations Chair, 2023–2024.
 - I continue to advise SPI as an alumni and former president, and am organizing the alumni community.
 - Community Member, 2018–2020.
 - I advocated in Congress for increased science funding & harassment monitoring in sciences.
- 2020–2021 Associate Editor, MIT Science Policy Review.
- 2019–2021 IEEE Standards Working Group P7001, Transparency of Autonomous Systems.

Diversity & Inclusion

- 2025 ICML Women in ML, *Panel Moderator & Mentor*.

- AAAI Women in AI, *Mentor*.
- 2021 Panelist, MIT: Picture A Scientist Viewing and Panel.
I presented the current student perspective on DEI at MIT and in academia.
- Advisory Board Member to MIT EECS Committee on Diversity, Equity, and Inclusion.
- CRA-W Cohort for Graduate Women.
- 2019 Co-President, MIT GW6: Graduate Women of EECS.
 - Co-organized the first *GW6 Research Summit* to foster fellowship and collaboration across EECS.
 - Supported the community of EECS Grad Women through social, professional, and wellness events.
- Instructor, Beautiful Patterns: Intro to CS, Puebla, Mexico.
Taught a week-long course on foundations of computer science to 20 high school women in Mexico.
- Outreach Talk for MOSTEC High School Students.
- 2018 Panelist, WeCode (Women Engineers Code) Conference, Harvard University.
Participated on two panels discussing product management. Hosted mentoring lunch.
- Teaching Assistant, International Women’s Day Android Things Workshop, Google.
- She Innovates Hackathon Mentor, University of Pittsburgh.
- 2017–2018 VEX Robotics Mentor: Space Cookies, Girl Scouts Teams supported by NASA Ames.
- 2017 Society of Women Leaders Retreat Panelist, Stanford University.
- 2014–2015 Student Volunteer, WeCode (Women Engineers Code) Conference, Harvard University.
- 2014 EngageCSEdu: Student Researcher, Google Research & NCWIT, www.engage-csedu.org.
Researched deterrents to women & minorities studying CS, aggregated inclusive CS course materials.

Invited Talks, Lectures, & Panels

- 2025 DIG-BUGS Workshop @ ICML, *On Specification Data for AI systems*.
- 2025 Oregon State University, AI Seminar, *On the Specification and Governance of AI systems*.
- 2025 AAAS/NSF Emerging Researchers National Conference, Plenary Talk, *AI, Ethics, and the Future of Work*.
- 2025 Far.AI Lab, *Musings on AI Policy from a Former U.S. Senate Staffer*.
- 2025 Simons Institute at UC Berkeley, *Musings on AI Policy from a Former U.S. Senate Staffer*.
- 2025 UC Berkeley AI and Society Seminar, *Interactions between AI and Public Policy*.
- 2025 AAAI Conference, New Faculty Highlight, *Musings on AI Policy from a Former U.S. Senate Staffer*.
- 2025 Guest Lecture in Intro to AI, *Franklin & Marshall College*.
- 2024 The Reinforcement Learning Conference, Panelist, *The Limits of Reward Functions*.
- 2024 Oxford University, Keble College, ELLIS RobustLLM Workshop, *Building Human-AI Alignment: Specifying, Inspecting, and Modeling AI Behaviors*.
- 2024 New York Academy of Sciences, Reinforcement Learning from Human Feedback Workshop, *No Fancy Tech Exception: Existing Laws Apply*.
- 2024 University of Maryland Baltimore County (UMBC) Perception, Prediction, and Reasoning Seminar, *Building Human-AI Alignment: Specifying, Inspecting, and Modeling AI Behaviors*.
- 2024 Carnegie Mellon University, Human Computer Interaction Institute (HCII), *Building Human-AI Alignment: Specifying, Inspecting, and Modeling AI Behaviors*.
- 2024 Brown University, *Building Human-AI Alignment: Specifying, Inspecting, and Modeling AI Behaviors*.
- 2024 University of California at San Diego, Halicioğlu Data Science Institute & School of Global Policy and Strategy, *Building Human-AI Alignment: Specifying, Inspecting, and Modeling AI Behaviors*.
- 2024 Princeton CITP, *Building Human-AI Alignment: Specifying, Inspecting, and Modeling AI Behaviors*.

2024 Northeastern, *Building Human-AI Alignment: Specifying, Inspecting, and Modeling AI Behaviors*.
2024 Tufts University, *Building Human-AI Alignment: Specifying, Inspecting, and Modeling AI Behaviors*.
2023 Stanford ILEAD Lab Meeting, *Iterative Reward Design: Specify, Model, Inspect, and Revise*.
2022 USC Robotics Seminar, *Conceptual Model Formation for Human-Robot Interaction*.
2022 UC Berkeley InterACT Lab Meeting, *Conceptual Model Formation for Human-Robot Interaction*.
2022 Queens University Seminar, *Conceptual Model Formation for Human-Robot Interaction*.
2022 HRI Human-Interactive Robot Learning (HIRL) Workshop, *Human Concept Learning for HRI*.
2022 MIT Open Learning, with Prof. Elena Glassman, *How Humans Can Understand Robot Behaviors*.
2021 Brown University Robotics Symposium, *Humans Learning About Robots Learning About Humans*.
2021 Panelist, NeurIPS Meaningful Representations of Life Workshop.
2021 Guest Lecture, SP.250 Good Intentions → Good Outcomes, *Ethical Dilemmas in Big Tech*.
2021 Guest Lecture, 6.170 Software Studio, *Socially-Responsible Computing: The Ethics Protocol*.
2021 Panelist, MIT PKG Center, *Building Pathways Towards Tech for Good Careers*.
2020 Guest Lecture, 6.170 Software Studio, *Socially-Responsible Computing: The Ethics Protocol*.
2020 MIT IAP Policy & Technology Workshop, *Interpretability in Machine Learning*.