

Benjamin Laufer

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EDUCATION

- **Cornell Tech** New York, NY
Ph.D. Candidate in Computing and Information Science *2021 – present*
 - **Advisors:** Helen Nissenbaum, Jon Kleinberg
- **Princeton University** Princeton, NJ
B.S. in Engineering, Operations Research and Financial Engineering, Cum Laude *2015 – 2019*
 - **Minors:** Urban Studies, Environmental Studies

GRANTS AND FELLOWSHIPS

- **LinkedIn Bowers CIS PhD Fellowship:** Full support for 2023-2024 academic year plus discretionary funding.
- **Meta PhD Fellowship Finalist:** Runner-up for a two-year, fully-funded fellowship in Computational Social Science. Over 3200 applicants internationally. (2023) [[link](#)]
- **Digital Life Initiative Doctoral Fellowship:** Yearlong discretionary funding for PhD students interested in ethics, politics, and quality of life in digital societies. (2022)
- **Fulbright Fellowship, Laos:** 1 year full support (2019; declined)
- **Princeton SEAS Research Fund:** Funding for senior thesis research (2018-2019)
- **Parkhurst Research Fund:** Funding for senior thesis research (2018-2019)
- **Yale Law School Arthur Liman Fellowship:** Award supporting a summer internship in the public interest and colloquium attendance (2018) [[link1](#), [link2](#)]
- **Princeton SEAS Research Fund:** Funding for junior independent research (2018)
- **Princeton Environmental Institute Fellowship:** Award for environmental research (2017) [[link](#)]
- **Princeton International Internship Program:** Award for international summer research (2016)

HONORS

- **Lime Hackathon Winner:** 1st place prize in Lime’s annual company-wide hackathon. Project entitled “Head First: Real-Time Helmet Detector using Computer Vision” (2020)
- **Best Senior Thesis in Urban Studies:** Princeton Urban Studies department thesis prize (2019)
- **Kenneth H. Condit Graduation Prize:** Awarded to a graduating senior at Princeton who has exhibited excellence in leadership, academic achievement and community service (2019) [[link](#)]
- **Departmental Distinction:** Princeton ORFE Honors (2019)
- **Sigma Xi:** Nominated to the Scientific Research Honors Society upon graduating (2019)

PAPERS

- **Benjamin Laufer, Jon Kleinberg, and Hoda Heidari:** “Fine-tuning Games: Bargaining and Adaptation for General-Purpose Models,” [ArXiv](#).
- **Benjamin Laufer and Helen Nissenbaum:** “Algorithmic Displacement of Social Trust,” *Knight Institute Symposium on Algorithmic Amplification and Society*, 2023.
- **Benjamin Laufer, Jon Kleinberg, Karen Levy, and Helen Nissenbaum:** “Strategic Evaluation,” *ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO)*, 2023.
- **Benjamin Laufer, Thomas Gilbert, Helen Nissenbaum:** “Optimization’s Neglected Normative Commitments.” *ACM Conference on Fairness, Accountability, and Transparency (FAccT)*, 2023.
- **Benjamin Laufer, Emma Pierson, Nikhil Garg:** “End-to-end Auditing for Decision Pipelines.” *ICML Workshop on Responsible Decision Making in Dynamic Environments (RDMDE)*, 2022.

- **Benjamin Laufer***, **Niko Grupen***: “Collective Obfuscation and Crowdsourcing.” *KDD MIS2-TrueFact and ICML DisCoML workshops*, 2022.
- **Benjamin Laufer**, **Sameer Jain**, **A. Feder Cooper**, **Jon Kleinberg**, **Hoda Heidari**: “Four Years of FAccT: A Reflexive, Mixed-Methods Analysis of Research Contributions, Shortcomings, and Future Prospects.” *ACM Conference on Fairness, Accountability, and Transparency (FAccT)*, 2022.
- **A. Feder Cooper**, **Emanuel Moss**, **Benjamin Laufer**, **Helen Nissenbaum**: “Accountability in an Algorithmic Society.” *ACM Conference on Fairness, Accountability, and Transparency (FAccT)*, 2022.
- **Benjamin Laufer**: “Abandoning Criminal Risk and Recidivism: On Dangerous Goals in ML Scoring-Decision Systems.” *NeurIPS Resistance AI Workshop*, 2020.
- **Benjamin Laufer**: “Compounding Injustice: History and Prediction in Carceral Decision-Making.” Undergraduate Thesis, *ArXiv*, *Princeton Mudd Manuscript Library*, April 2019.
- **Benjamin Laufer**: “Data Analytics and Machine Learning for Environmental Protection: Targeting Air Inspections.” Junior Research Paper, *Princeton ORFE*, January 2018.

TALKS AND EVENTS

- **Harvard EconCS Seminar**: Visit and talk, “Fine-tuning Games: Bargaining and Adaptation for General-Purpose Models,” Cambridge, MA, November, 2023.
- **MIT AI and Society Reading Group**: Visit and talk, “Fine-tuning Games: Bargaining and Adaptation for General-Purpose Models,” Cambridge, MA, November, 2023.
- **EAAMO**: Proceedings paper and poster presentation, “Strategic Evaluation,” Boston, MA, October, 2023.
- **Symposium on Applications of Contextual Integrity**: Proceedings talk, “Party’s Over: First-Party Surveillance Through the Lens of Contextual Integrity,” Toronto, Canada, September, 2023.
- **Industria 5.0**: Presentation, “Algorithmic Amplification,” New York, NY, September, 2023.
- **BIRS Workshop**: Participant, “Contextual Integrity for Differential Privacy” Kelowna, British Columbia, Canada, August, 2023.
- **Cornell Milstein Fellowship Program**: Lecture, “When is Algorithmic Amplification Problematic?” July, 2023.
- **Cornell AI, Policy and Practice**: “First-party Surveillance” July, 2023.
- **FAccT**: Proceedings talk, “Optimization’s Neglected Normative Commitments,” Chicago, IL, June, 2023.
- **PLSC**: Workshop participant as paper-writer and discussant, “First-Party Surveillance,” Boulder, CO, June, 2023.
- **Columbia Knight Institute**: Symposium entitled ‘Optimizing for What? Algorithmic Amplification and Society.’ Presenting work, “When is Algorithmic Amplification Wrongful?” New York, NY, April, 2023. [\[event\]](#)
- **Cornell Digital Life Initiative Seminar**: “When is Algorithmic Amplification Wrongful?” New York, NY, March, 2023. [\[event\]](#)
- **Cornell AI, Policy and Practice**: “When is Algorithmic Amplification Wrongful?” February, 2023.
- **c3.ai**: Workshop on Data, Learning and Markets Workshop, “Disparate Impact over a Sequence of Capacity-Constrained Subset Selections,” Poster Session, Champaign, IL, October, 2022. [\[event\]](#)
- **EAAMO**: Queer in AI panel, October, 2022. [\[event\]](#)
- **Cornell AI, Policy and Practice**: “Accounting for Unforeseeable Machine Learning Harms via Economic Models of Product Liability,” October, 2022.
- **KDD: MIS2-TrueFact Workshop** talk, “Collective Obfuscation and Crowdsourcing,” August, 2022. [\[event\]](#)
- **ICML**: Workshop on Disinformation Countermeasures and Machine Learning, “Collective Obfuscation and Crowdsourcing,” July, 2022. [\[event\]](#)
- **ICML**: Workshop on Responsible Decision-Making in Dynamic Environments, “End-to-end Auditing of Decision Pipelines,” July, 2022. [\[video\]](#)
- **Economics & Computing**: Poster Session, “End-to-end Auditing of Decision Pipelines,” July, 2022. [\[link\]](#)
- **FAccT**: Proceedings talk, “Four Years of FAccT: A Reflexive, Mixed-Methods Analysis of Research Contributions, Shortcomings, and Future Prospects,” June, 2022. [\[video\]](#)
- **Cornell Information Science Colloquium**: “Neglected Normative Assumptions in Applied Optimization,” April, 2022.
- **Cornell Tech Tree Day**: “Auditing Efficiency and Equity throughout an Operational Workflow,” April, 2022.
- **Cornell AI, Policy and Practice**: “Crowdsourcing, Allocation, and Equity in NYC Parks Department Policies,” April, 2022.

- **Cornell Tech Course Lecture:** Data Science in the Wild Guest Lecture, “Data Visualization,” February, 2022.
- **CUNY Experimental Philosophy Group:** “On Accountability,” November, 2021.
- **Cornell AI, Policy and Practice:** “Accountable Metrics,” November, 2021.
- **NeurIPS:** Workshop on Resistance AI, “Dangerous Goals in ML Scoring-Decision Systems,” December 2020. [[event](#)]
- **Princeton ORFE Department:** Invited lecture on algorithmic fairness in ORF473-FinTech Lending (prof: Margaret Holen), May 2020.
- **Princeton Reunions:** “Princeton in Prison: The Petey Greene Tutors” Panel, June 2019.
- **Princeton Urban Studies Department:** Research Symposium, May 2019. [[link](#)]
- **High Meadows Environmental Institute:** Research Symposium, April 2019.
- **Yale Law Public Interest Colloquium:** Invited as a fellow, April 2018. [[event](#)]

WORK EXPERIENCE

- **Lime** San Francisco, CA
Data Scientist II (prev. Data Scientist, Data Analyst Intern) 2019 - 2021 (2 years)
- **National Center for Access to Justice** New York, NY
Arthur Liman Research Fellow, Yale Law School Jun 2018 - Aug 2018 (3 months)
- **U.S. Environmental Protection Agency (EPA)** New York, NY
Data Science Intern Jun 2017 - Jan 2018 (8 months)
- **Princeton Plasma Physics Laboratory (PPPL)** Princeton, NJ
Research Assistant Oct 2016 - May 2017 (8 months)
- **International Water Management Institute** Accra, Ghana
Intern Jun 2016 - Aug 2016 (3 months)
- **Princeton High School Debate Team** Princeton, New Jersey
Private Debate Coach September 2015 - June 2016 (10 months)
- **National Symposium for Debate** Minneapolis, Minnesota
Debate Teacher Jul 2015 - Aug 2015 (2 months)

SERVICE AND VOLUNTEERING

- **Academic Conferences**
Program Committee Reviewer
 - **FAccT:** 2023
 - **AIES:** 2023
 - **CHI:** 2023
 - **WWW:** 2023
- **Cornell University** New York, NY
Information Science Graduate Student Association (ISGSA) 2023-2024
 - **Faculty Hiring Representative:** Elected position; responsible for attending faculty hiring meetings and representing graduate student interests.
- **UCLA COVID Behind Bars Research Group** Los Angeles, CA
Data Science Researcher 2020
 - **Data reporting for COVID-19 cases in ICE detention facilities:** Creating a single location for COVID-19 case and death counts in ICE facilities.
- **Petey Greene Program** Princeton, NJ
Tutor and Undergraduate President 2016 - 2019 (4 years)
 - **Bringing Education into Prisons:** Tutored inside NJ correctional facilities weekly for four years.
 - **Undergraduate President:** Led the team of 100+ tutors and organized educational programs and trainings for tutors.

PROGRAMMING SKILLS

- **Languages:** Python, SQL, MATLAB, R, Java, C, html, CSS, JS, STATA
- **Technologies:** AWS, Sagemaker, React, Tableau

REFERENCES

- **Helen Nissenbaum, Professor, Information Science, Cornell Tech:** hn288 [at] cornell.edu
- **Jon Kleinberg, Professor, Information Science and Computer Science, Cornell University:** kleinberg [at] cornell.edu
- **Nikhil Garg, Assistant Professor, Operations Research and Information Engineering, Cornell Tech:** ngarg [at] cornell.edu
- **Miklos Racz, Assistant Professor, Operations Research and Financial Engineering, Princeton University:** mkracz [at] princeton.edu