

ANDREW JORDAN VITA PRINSTER (DREW)

3400 N Charles St, Baltimore, MD 21218 | (303) 709-6332 | drew@cs.jhu.edu | drewprinster.github.io | [Google Scholar](https://scholar.google.com/citations?user=he/him) | he/him

EDUCATION

Johns Hopkins University Ph.D. student in Computer Science – <i>Advisors: Suchi Saria & Anqi Liu</i> Tentative Dissertation Title: “Toward Safe & Regulatable AI via Statistical Control & Monitoring”	Baltimore, MD 2021 – present
Johns Hopkins University MSE in Computer Science – <i>Advisors: Suchi Saria & Anqi Liu</i>	Baltimore, MD 2021 – 2023
Yale University B.S. Computer Science and Mathematics – <i>Research Advisors: Nicholas Christakis & Mark Gerstein</i> Graduated with Distinction in the Major; Yale Global Health Scholar	New Haven, CT 2017 – 2021

PAPERS

PUBLISHED & ACCEPTED CONFERENCE ARTICLES

- [1] **Prinster, D.**, Fannjiang, C., Park, J. W., Cho, K., Liu, A., Saria, S., & Stanton, S. (2026). [Conformal Policy Control. Spotlight \(top 2.2% submission\)](#) at *The International Conference on Machine Learning (ICML)*.
- [2] Wong, G., **Prinster, D.**, Saria, S., Chellappa, R., & Liu, A. [Toward Calibrated Mixture-of-Experts Under Distribution Shift](#). (2026). *The International Conference on Machine Learning (ICML)*.
- [3] Shaer, S., Bar, Y., **Prinster, D.**, & Romano, Y. (2026). [Testing For Distribution Shifts with Conditional Conformal Test Martingales](#). *The International Conference on Machine Learning (ICML)*.
- [4] Wong, G., **Prinster, D.**, Saria, S., Chellappa, R., & Liu, A. [Improving Coverage in Combined Prediction Sets with Weighted p-values](#). *Conference on Artificial Intelligence and Statistics (AISTATS)*, 2026.
- [5] **Prinster, D.**, Han, X., Liu, A., & Saria, S. [WATCH: Adaptive Monitoring for AI Deployments via Weighted-Conformal Martingales](#). *The International Conference on Machine Learning (ICML)*, 2025.
- [6] **Prinster, D.**, Stanton, S., Liu, A., & Saria, S. [Conformal Validity Guarantees Exist for Any Data Distribution \(and How to Find Them\)](#). *The International Conference on Machine Learning (ICML)*, 2024.
- [7] **Prinster, D.**, Saria, S., & Liu, A. [JAWS-X: Addressing Efficiency Bottlenecks of Conformal Prediction Under Standard and Feedback Covariate Shift](#), **Oral (top 2% submission)** at *The International Conference on Machine Learning (ICML)*, 2023.
- [8] **Prinster, D.**, Saria, S., & Liu, A. [Efficient Approximate Predictive Inference Under Feedback Covariate Shift with Influence Functions](#), Extended abstract in *Conformal and Probabilistic Prediction with Applications (COPA)*, 2023.
- [9] **Prinster, D.**, Liu, A., & Saria, S. [JAWS: Auditing Predictive Uncertainty Under Covariate Shift](#). *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.

PUBLISHED JOURNAL ARTICLES

- [10] Beghini, F., Pullman, J., Alexander, M. Vishnempet Shridhar, S., **Prinster, D.**, ..., Brito, I., & Christakis, N. [Gut Microbiome Strain-Sharing Within Isolated Village Social Networks](#), *Nature*, 2024.
- [11] **Prinster, D.**, Mahmood, A., Saria, S., Jeudy, J., Lin, C.H., Yi, P., & Huang, C.M. [Care to Explain? AI Explanation Types Differentially Impact Chest Radiograph Diagnostic Performance and Physician Trust in AI](#), *Radiology*, 2024.
- [12] **Prinster, D.**, Resasco, J., & Nufio, C. [Weather variation affects the dispersal of grasshoppers beyond their elevational ranges](#), in *Ecology and Evolution*, 2020.
- [13] **Prinster, D.**, Hoskins., & Strode, P. [Pitfall traps & diversity indices: Using quantitative reasoning to test edge effect theory](#). *The American Biology Teacher*, 2019.

PREPRINTS & IN REVIEW

- [14] Sadhuka, S., **Prinster, D.**, Fannjiang, C., Scalia, G., Regev, A., & Wang, H. (2025). [E-evaluator: Reliable Agent Verifiers with Sequential Hypothesis Testing](#). *arXiv preprint arXiv:2512.03109*.
- [15] **Prinster, D.**, Alexander, M., & Christakis, A. [Exact Sequence Variants Analysis of Human Gut Microbiome and Personality Traits Conditional on Host Genetics](#). In “revise and resubmit” at *Nature Communications Biology*.

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AWARDS & FELLOWSHIPS

- Amazon Institute for Interactive AI (AI2AI) PhD Fellowship 2024-25 2024
- Johns Hopkins Mathematical Institute for Data Science (MINDS) Spring Fellowship 2024
- Heinrich von Staden Cup, Ezra Stiles College at Yale University 2021
“to a senior who most consistently challenged the social and intellectual conscience of the College.”
- National Science Foundation Graduate Research Fellowship Program (NSF GRFP) Honorable Mention 2021
- Yale College Dean’s Summer Research Fellowship 2020
- Ezra Stiles (Yale residential college) John E. Linck & Alanne Headland Linck Fellowship 2020, 2019, 2018
- Ezra Stiles (Yale residential college) Gary Stein Fellowship 2020, 2019, 2018
- Ezra Stiles (Yale residential college) Richter Fellowship 2019
- Unite For Sight Volunteer of the Year 2019
- Yale College Howard W. Hilgendorf Memorial Fellowship 2018

INVITED TALKS & PANELS

- WATCH+: Monitoring AI Deployments via Weighted-Conformal Martingales & Extensions (Forthcoming) Mar. 2027
ENAR Spring Meeting: Session on Continuous Monitoring of AI/ML Systems
- Invited Moderator: Panel on Uncertainty Quantification for Agentic Systems Jul. 2026
ICML Workshop on Statistical Frameworks for Uncertainty in Agentic Systems
- Conformal Decision Theory for AI Agents Oct. 2025
Berkeley-Genentech Workshop on Uncertainty Quantification for Decision Making
- WATCHing the Watchers: Real-Time Monitoring for Safer AI Agents Jul. 2025
ICML Social on Multi-Agent Systems in Ambient Settings
- Conformal Validity Guarantees Exist for Any Data Distribution (and How to Find Them) Oct. 2024
Lindemann Lab, University of Southern California (USC)
- Conformal Validity Guarantees Exist for Any Data Distribution (and How to Find Them) Oct. 2024
(Invited Poster) Mathematics of Trustworthy Machine Learning Workshop, SLAM Mathematics of Data Science (MDS24)
- Conformal Validity Guarantees Exist for Any Data Distribution (and How to Find Them) Sep. 2024
Amsterdam Machine Learning Lab (AMLab) Seminar
- Extending Conformal Prediction to AI Agents Aug. 2024
Active Learning Reading Group, Johns Hopkins University Applied Physics Laboratory (APL)

FACULTY GRANT & BOOK CONTRIBUTIONS

- Proposal Contributor: ARPA-H ADVOCATE grant (under review). 2026
- Proposal Contributor: Gordon and Betty Moore Foundation grant (>\$700K awarded to PI: Dr. Saria). 2023 – 2024
- Proposal Contributor: Templeton Foundation grant (>\$1.3M awarded to PI: Dr. Christakis). 2020
- Book Contributor: *Apollo’s Arrow*, book on COVID-19 pandemic by Dr. Christakis. 2020

SERVICE & TEACHING

REVIEWING

- International Conference on Machine Learning (ICML) (2025 Outstanding, 2026 Gold Reviewer) 2025, 2026
- Philosophical Transactions of the Royal Society A: Special Issue on Uncertainty Quantification in AI 2025

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- Annals of Statistics 2025
- International Conference on Learning Representations (ICLR) 2025
- NeurIPS Workshop on Statistical Frontiers in LLMs and Foundation Models (**Program Committee**) 2024
- Conference on Uncertainty in Artificial Intelligence (UAI) 2024
- Machine Learning for Health (ML4H) Symposium (**Outstanding Reviewer**) 2022, 2023
- ICML Workshop on Spurious Correlations, Invariance and Stability 2023
- Conference on Information Sciences and Systems (CISS) 2023

TEACHING

- Teaching Assistant at Johns Hopkins University Spring 2023
Advanced Machine Learning: ML for Trustworthy AI (with Professor Anqi Liu)
- Teaching Assistant at Yale University Fall 2019
First-Year Organic Chemistry (with Professor Timothy Newhouse)

ACADEMIC OUTREACH & DEPARTMENT SERVICE

- Orientation, Recruitment, & (Rotating) Faculty Liason Chair for JHU CS PhD Student Council 2022 – present
- Organizer & Group Leader: Mini workshop on Trustworthy AI, NeurIPS 2022 High School Outreach Program 2022
- PhD Application Mentor with Johns Hopkins Center for Language and Speech Processing (CLSP) 2022

PUBLIC HEALTH VOLUNTEERING

- Global Impact Fellow with Unite For Sight (UFS) in Honduras (leading global health non-profit)
Volunteer & Researcher: ZOE Eye Clinic (UFS Honduras partner) for ~30 outreach trips over 8 weeks. Summer 2018
Yale Campus Representative (top 2% of UFS alumni). 2018 – 2021
- Volunteer: HAVEN Free Clinic Social Services Department 2017 – 2019
Assisted uninsured residents with health-related social/financial needs, e.g. medical debt relief, Medicaid application.

FURTHER RESEARCH & WORK EXPERIENCE

INDUSTRY

- Prescient Design at Genentech – *Advisors: Dr. Samuel Stanton & Dr. Kyunghyun Cho* San Francisco, CA & New York, NY
Topic: Conformal Policy Control [1] Summer & early Fall 2025

ACADEMIA

- Johns Hopkins University – *Advisors: Dr. Suchi Saria & Dr. Anqi Liu* Baltimore, MD
Topic: Methods for Reliable and Regulatable AI [1] [5] [6] [7] [8] [9] 2021 – present
- Johns Hopkins University – *Supervisors: Dr. Chien-Ming Huang & Dr. Suchi Saria* Baltimore, MD
Topic: Human-AI Teaming in Healthcare [11] 2021 – 2024
- Yale University – *Supervisor: Dr. Nicholas Christakis* New Haven, CT
Topic: Microbiome, Social Networks, and Mental Health in Honduras [10] 2019 – 2022
- Yale University – *Supervisor: Dr. Mark Gerstein* New Haven, CT
Topic: Statistical Testing of Metagenome Alignments (senior thesis) 2020 – 2021
- CU Boulder Entomology Dept. – *Supervisors: Dr. César Nufio, Dr. Paul Strode* Boulder, CO
Topic: Effects of Climate Change on Local Ecology [12] [13] 2014 – 2020
- CU Boulder Chemistry & Biochemistry Dept. – *Supervisor: Dr. Dylan Taatjes* Boulder, CO
Topic: Effect of Activators on Transcription of Human HSP70 mRNA (senior thesis) Summers, 2015 & 2016

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NONPROFIT

- Unite For Sight, Honduras – (Principal Investigator) *Collaborators: ZOE Eye Clinic* Tegucigalpa, Honduras
Topic: Perceptions of Cataract Surgery in Diagnosed Outreach Patients (service-oriented research) 2018 – 2021

INTERESTS & SKILLS

Interests: Lifetime soccer player, runner, hiker, skier and snowboarder. Enjoys good books, drawing and painting, board games, bird watching, quality time with family and friends, and reflection.

Skills: *Language:* Spanish, conversational *Computer:* Python, R, C/C++, Java, JavaScript, HTML