

Juan Carlos Perdomo Silva

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| Current Employment | <i>Postdoctoral Fellow</i> Harvard Center for Research on Computation and Society Host: Cynthia Dwork | 2023-Present |
| Education | <i>PhD - Electrical Engineering & Computer Science</i> University of California, Berkeley Advisors: Peter Bartlett & Moritz Hardt | 2018-2023 |
| | <i>AB - Computer Science & Mathematics</i> Harvard College, <i>magna cum laude with highest honors in field</i> | 2013-2017 |
| Honors & Awards | <i>Academic</i> <ul style="list-style-type: none">National Science Foundation Graduate Research FellowshipUC Berkeley EECS Excellence AwardDetur Book Prize Winner, John Harvard Scholar <i>International & Olympic Sailing</i> <ul style="list-style-type: none">Member of Emirates Team New Zealand's successful challenge for the 35th edition of the America's Cup in 2016Took semester leave from undergrad to campaign for the Rio 2016 OlympicsRepresented Puerto Rico at the 2015 Toronto Pan American Games2013 Laser Radial ISAF Youth World Champion (1st ever from Puerto Rico)2011 U-17 & U-21 Laser Radial World ChampionNorth American, South American, & World Optimist Team Racing World Champion with Puerto Rico (2007 & 2008) | 2018-2021 2018 2014 |
| Teaching Experience | Efficient Algorithms and Intractable Problems (UCB CS170) <ul style="list-style-type: none">Teaching assistant under Professors Prasad Raghavendra and John Wright. Statistical Learning Theory (UCB CS281a) <ul style="list-style-type: none">Teaching assistant under Professors Moritz Hardt and Ben Recht. Introduction to Theoretical Computer Science (Harvard CS121) <ul style="list-style-type: none">Fall 2017, Head Teaching Fellow. Assisted Professor Boaz Barak in revamping the syllabus and managed a team of 15+ of course staff.Fall 2015 and 2016, Teaching Fellow. Assisted Professor Harry Lewis. | Spring 2023 Fall 2019 Fall 2015-17 |
| Research Publications | Asterisks denote equal contribution, alphabetical ordering. <ul style="list-style-type: none">Cynthia Dwork*, Chris Hays*, Nicole Immorlica*, Juan C. Perdomo*, and Pranay Tankala*. "From Fairness to Infinity: Outcome Indistinguishable (Omni) Prediction in Evolving Graphs". <i>under submission, 2024</i>Joshua P. Gardner, Juan C. Perdomo, and Ludwig Schmidt. "Large Scale Transfer Learning for Tabular Data via Language Modeling". <i>Advances in Neural Information Processing Systems, 2024</i> | |

- Juan C. Perdomo, Tolani Britton, Moritz Hardt, and Rediet Abebe. “Difficult Lessons on Social Prediction from Wisconsin Public Schools”. *under review*, 2024
- Gavin Brown*, Jonathan Hayase*, Sam Hopkins*, Weihao Kong*, Xiyang Liu*, Seewong Oh*, Juan C. Perdomo*, and Adam Smith*. “Insufficient Statistics Perturbation: Stable Estimators for Private Least Squares”. *Conference on Learning Theory*, 2024
- Juan C. Perdomo. “The Relative Value of Prediction in Algorithmic Decision Making” *International Conference on Machine Learning*, 2024
- Michael P. Kim* and Juan C. Perdomo*. “Making Decisions under Outcome Performativity”. *Innovations in Theoretical Computer Science*, 2023
- Juan C. Perdomo, Akshay Krishnamurthy, Peter Bartlett, and Sham Kakade. “A Complete Characterization of Linear Estimators for Offline Policy Evaluation”. *Journal of Machine Learning Research*, 2023
- Jack Umenberger, Max Simchowitz, Juan C. Perdomo, Kaiqing Zhang, and Russ Tedrake. “Globally Convergent Policy Search for Output Estimation”. *Neural Information Processing Systems*, 2022
- Juan C. Perdomo, Jack Umenberger, and Max Simchowitz. “Stabilizing Dynamical Systems via Policy Gradient Methods”. *Neural Information Processing Systems*, 2021
- Juan C. Perdomo, Max Simchowitz, Alekh Agarwal, and Peter Bartlett. “Towards a Dimension-Free Understanding of Adaptive Linear Control”. *Conference on Learning Theory*, 2021
- John Miller*, Juan C. Perdomo*, and Tijana Zrnic*. “Outside the Echo Chamber: Optimizing the Performative Risk”. *International Conference on Machine Learning*, 2021
- Celestine Mendler-Dunner*, Juan C. Perdomo*, Tijana Zrnic*, and Moritz Hardt. “Stochastic Optimization for Performative Prediction”. *Neural Information Processing Systems*, 2020
- Juan C. Perdomo*, Tijana Zrnic*, Celestine Mendler-Dunner, and Moritz Hardt. “Performative Prediction”. *International Conference on Machine Learning*, 2020

Visitors Hosted

- Unai Fischer-Abaigar, visiting from LMU Fall 2024

Masters Thesis Supervised

- Peihan Liu, Harvard, *Multicalibration and Loss Minimization* 2023-2024

Personal Information

- Born and raised in San Juan, Puerto Rico
- Fluent in English and Spanish