# Paula Nicoleta Gradu

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EDUCATION	PhD in Computer Sci University of Califor	ence Aug 2021 — presernia, Berkeley, Berkeley, CA.						
	Advisors	Ben Recht, Michael Jordan						
	Bachelor of Arts Princeton University	Sep 2017 — May 20 v, Princeton, NJ						
	Major	Mathematics						
	Certificates	Statistics and Machine Learning (equivalent to minor program Applications of Computing (equivalent to Computer Science min Applied and Computational Mathematics						
	Awards	The Middleton Miller '29 Prize 2021 (awarded for the best independent work in mathematics)  The Andrew H. Brown Prize 2020						
		(awarded to the top 2-4 juniors in the Mathematics department)  The Shapiro Prize for Academic Excellence 2018						
	(ALT). 2023. "Lyapunov Do Control." Kat	la Gradu, Elad Hazan. Conference on Algorithmic Learning Theory ensity Models: Constraining Distribution Shift in Learning-Based ie Kang, Paula Gradu, Jason Choi, Michael Janner, Claire Tomlin, e. International Conference on Machine Learning (ICML). 2022.						
	"Online Contr Paula Gradu,	rol of Unknown Time-Varying Dynamical Systems." Edgar Minasyan Max Simchowitz, Elad Hazan. Neural Information Processing System						
		gret for Control of Time-Varying Dynamics." Paula Gradu, Elad Haza van. <i>Conference on Learning for Dynamics and Control (L4DC)</i> . 2023						
		tic Control with Bandit Feedback." Paula Gradu, John Hallman, Elad l Information Processing Systems (NeurIPS). 2020.						
	International	or Romanian: Results and Potential." Paula Gradu, Radu Ion.  Conference Linguistic Resources and Tools for Processing the nguage. 2016.						
PREPRINTS		"Online Control For Adaptive Tapering Of Medications." Paula Gradu, Ben Recht. Accepted to the 2023 IEEE Conference on Decision and Control.						
	Experiments.'	"CLIP-OGD: An Experimental Design for Adaptive Neyman Allocation in Sequential Experiments." Jessica Dai, Paula Gradu, Chris Harshaw. Under review at <i>Neural Information Processing Systems</i> . 2023.						
		"Valid Inference After Causal Discovery." Paula Gradu*, Tijana Zrnic*, Yixin Wang, Michael Jordan. Under review at the <i>Journal of the American Statistical Association</i> .						

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"Machine Learning for Mechanical Ventilation Control." Daniel Suo, Naman Agarwal, Wenhan Xia, Xinyi Chen, Udaya Ghai, Alexander Yu, Paula Gradu, Karan Singh, Cyril Zhang, Edgar Minasyan, Julienne LaChance, Tom Zajdel, Manuel Schottdorf, Daniel Cohen, Elad Hazan. *Machine Learning for Health (ML4H) Symposium*. 2021.

"DELUCA — A Differentiable Control Library: Environments, Methods, and Benchmarking." Paula Gradu\*, John Hallman\*, Daniel Suo\*, Alex Yu, Naman Agarwal, Udaya Ghai, Karan Singh, Cyril Zhang, Anirudha Majumdar, Elad Hazan. Differentiable Computer Vision, Graphics, and Physics in Machine Learning Workshop, Neural Information Processing Systems (NeurIPS). 2020.

#### **EMPLOYMENT**

### Student Researcher, Google AI Princeton

July 2019 - June 2021

### Research Assistant, Princeton University

Geophysical Fluid Dynamics Laboratory Feb 2019 - July 2019 Socio-Cognitive Processes Lab Oct 2017 - July 2018

#### Research Intern, Romanian Academy

Feb 2016 - Mar 2017

Research Institute for Artificial Intelligence "Mihai Drăgănescu"

#### **TEACHING**

Teaching Assistant, Computational Control Theory. Princeton University, Fall 2020.

Graduate Student Instructor, Statistical Learning Theory. University of California, Berkeley, Fall 2023.

## LEADERSHIP

## Women in Machine Learning (WiML)

General Chair, The 3rd WiML Un-Workshop 2022

#### Women in Computer Science and Electrical Engineering (WiCSE)

Social Chair 2022-2023 Co-President 2023-2024

## PEER REVIEW

Journal of Machine Learning Research 2022 International Conference on Machine Learning 2022

Neural Information Processing Systems 2022 (top 8%), 2023

Conference on Learning for Dynamics and Control 2023

## GRADUATE

### University of California, Berkeley

#### **COURSEWORK**

Theoretical Foundations of Learning, Decisions, and Games

Linear Systems Theory

Causal Inference

Advanced Topics in Statistical Learning

## **Princeton University**

Measure-Theoretic Probability Theory

**Information Theory** 

Theoretical Machine Learning

Optimization for Machine Learning

Optimization on Smooth Manifolds

Deep Learning for Natural Language Processing

Theory of Weakly Supervised Learning Foundations of Reinforcement Learning

Mathematical Understanding of Deep Learning