Anna Deza

| CONTACT | email: adeza6@gatech.edu | website: annadeza.github.io |

CURRENT	**Georgia Institute of Technology** **Ronald J. and Carol T. Beerman Postdoctoral Fellow in the H. Milton Stewart School of Industrial & Systems Engineering** Mentor: Santanu S. Dey

EDUCATION	**University of California, Berkeley** **Doctor of Philosophy Industrial Engineering & Operations Research** Thesis title: *Scaling Mixed-Integer Optimization for Machine Learning Problems* Advisor: Alper Atamtürk	$2020 - 2025$
	University of Toronto **Bachelor of Applied Science in Engineering Science, Machine Intelligence** Graduation with High Honours Advisor: Merve Bodur	$2016 - 2020$

RESEARCH	**Two-Phase Framework for Nonlinear Mixed Integer Programs with Indicators** A. Deza, A. Gómez, A. Atamtürk. *To Be Submitted* **Sum of Squares Submodularity** A. Deza, G. Hall. *Submitted* **Fair and Accurate Regression: Strong Formulations and Algorithms** A. Deza, A. Gómez, A. Atamtürk. *Submitted* **Safe Screening for Logistic Regression with $\ell_0 - \ell_2$ Regularization** A. Deza, A. Atamtürk. *KDIR, 2022. (Won Best Paper Award)* **Simulating Polyculture Farming to Learn Automation Policies for Plant Diversity and Precision Irrigation** Y. Avigal, W. Wong, M. Presten, M. Theis, S. Aeron, A. Deza, S. Sharma, R. Parikh, S. Oehme, S. Carpin, J. Viers, S. Vougioukas, K. Goldberg. *IEEE T-ASE, 2022* **Learning Seed Placements and Automation Policies for Polyculture Farming with Companion Plants** Y. Avigal, A. Deza, W. Wong, S. Oehme, M. Presten, M. Theis, J. Chui, P. Shao, H. Huang, A. Kotani, S. Sharma, R. Parikh, M. Luo, S. Mukherjee, S. Carpin, J. Viers, S. Vougioukas, K. Goldberg. *ICRA, 2021* **Distance Between Vertices of Lattice Polytopes** A. Deza, A. Deza, Z. Guan, L. Pournin. *Optimization Letters, 2020*

ACADEMIC PRESENTATIONS	ICCOPT, Los Angeles	July 2025
	MIP Poster Competition, Minneapolis	June 2025
	Machine Learning NeEDS Mathematical Optimization Seminar, Virtual	February 2025
	Optimization Workshop: Theory, Algorithms, and Applications Poster, Bogotá	December 2024
	INFORMS Annual Meeting, Seattle	October 2024
	ISMP, Montréal	July 2024
	MIP Poster Competition, Lexington	June 2024

	AI4OPT Poster Competition, Berkeley	April 2024
	INFORMS Annual Meeting, Phoenix	October 2023
	Workshop on Recent Advances in Optimization, Fields Institute, Toronto	December 2022
	KDIR 2022, Valletta (Virtual)	October 2022
	INFORMS Annual Meeting, Indianapolis	October 2022
	AI4OPT Institute, Virtual	September 2022
	MIP Poster Competition, Rutgers	May 2022
	CORS Annual Conference, Virtual	June 2021
	INFORMS Annual Meeting, Virtual	November 2020

RESEARCH EXPERIENCE	**NSF AI Institute for Advances in Optimization**	Spring 2022 − 2025
	University of California, Berkeley	
	Host: Alper Atamtürk	
	AUTOLAB	Summer 2020
	University of California, Berkeley	
	Host: Ken Goldberg	
	CEAR Lab	Summer 2019
	Technion - Israel Institute of Technology	
	Host: Amir Degani	
	Discrete Optimization Team	Summer 2018
	RIKEN Advanced Intelligence Project, Tokyo	
	Host: Takanori Maehara	
	Laboratoire de Recherche en Informatique	Summer 2017
	Université Paris-Sud	
	Host: Yannis Manoussakis	

TEACHING EXPERIENCE	**Graduate Student Instructor:** IEOR262A: Mathematical Programming I	Fall 2022
	Graduate Student Instructor: IEOR142: Introduction to Machine Learning	Fall 2021

FELLOWSHIP AND AWARDS	ISyE Postdoctoral Named Fellowship	2025
	KDIR 2022 Best Paper Award	2022
	MIP 2022 Most Popular Poster Award	2022
	UC Berkeley IEOR Department Fellowship	2020
	INFORMS Undergraduate Operations Research Prize Finalist	2020
	MITACS Globalink Research Award	2019
	ESROP - Global Award	2019
	Engineering Science Chair's Scholarship	2018
	Exceptional Opportunity Award	2017
	Dean's Merit Award	2017
	Dean's Honor List	2016-2020

SKILLS	**Languages:** English, French, Hebrew	
	Computational: Python, Julia, Gurobi, Mosek	

SERVICE AND LEADERSHIP	**AI4OPT Student Leadership Council** Co-Chair	2022 − 2025
	IEOR First Year PhD Mentorship Mentor	2023 − 2025
	INFORMS UC Berkeley Student Chapter Organizer	2023 − 2024