

# Anna Deza

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EDUCATION	<b>University of California, Berkeley</b> <b>Doctor of Philosophy Industrial Engineering &amp; Operations Research</b> 2020 – Present Advisor: Alper Atamtürk  <b>University of Toronto</b> <b>Bachelor of Applied Science in Engineering Science, Machine Intelligence</b> 2016 – 2020 Graduation with High Honours Advisor: Merve Bodur	
RESEARCH	<b>Fair and Accurate Regression: Strong Formulations and Algorithms</b> A. Deza, A. Gómez, A. Atamtürk. <i>Submitted</i>  <b>Logic Rules and Chordal Graphs for Sparse Learning</b> A. Deza, A. Gómez, A. Atamtürk. <i>To Be Submitted</i>  <b>Sum of Squares Submodularity</b> A. Deza, G. Hall. <i>Under Preparation</i>  <b>Safe Screening for Logistic Regression with <math>\ell_0 - \ell_2</math> Regularization</b> A. Deza, A. Atamtürk. <i>KDIR, 2022. (Won Best Paper Award)</i>  <b>Simulating Polyculture Farming to Learn Automation Policies for Plant Diversity and Precision Irrigation</b> 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. <i>IEEE T-ASE, 2022</i>  <b>Learning Seed Placements and Automation Policies for Polyculture Farming with Companion Plants</b> 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. <i>ICRA, 2021</i>  <b>Distance Between Vertices of Lattice Polytopes</b> A. Deza, A. Deza, Z. Guan, L. Pournin. <i>Optimization Letters, 2020</i>	
ACADEMIC PRESENTATIONS	Optimization Workshop: Theory, Algorithms, and Applications Poster, Bogotá INFORMS Annual Meeting, Seattle ISMP, Montréal MIP Poster Competition, Lexington AI4OPT Poster Competition, Berkeley INFORMS Annual Meeting, Phoenix Workshop on Recent Advances in Optimization, Fields Institute, Toronto KDIR 2022, Valletta (Virtual) INFORMS Annual Meeting, Indianapolis AI4OPT Institute, Virtual MIP Poster Competition, Rutgers	December 2024 October 2024 July 2024 June 2024 April 2024 October 2023 December 2022 October 2022 October 2022 September 2022 May 2022

	CORS Annual Conference, Virtual	June 2021
	INFORMS Annual Meeting, Virtual	November 2020
RESEARCH EXPERIENCE	<b>NSF AI Institute for Advances in Optimization</b> University of California, Berkeley Host: Alper Atamtürk	Spring 2022 – Present
	<b>AUTOLAB</b> University of California, Berkeley Host: Ken Goldberg	Summer 2020
	<b>CEAR Lab</b> Technion - Israel Institute of Technology Host: Amir Degani	Summer 2019
	<b>Discrete Optimization Team</b> RIKEN Advanced Intelligence Project, Tokyo Host: Takanori Maehara	Summer 2018
	<b>Laboratoire de Recherche en Informatique</b> Université Paris-Sud Host: Yannis Manoussakis	Summer 2017
TEACHING EXPERIENCE	<b>Graduate Student Instructor:</b> IEOR262A: Mathematical Programming I	Fall 2022
	<b>Graduate Student Instructor:</b> IEOR142: Introduction to Machine Learning	Fall 2021
HONORS AND AWARDS	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	<b>Languages:</b> English, French, Hebrew <b>Computational:</b> Python, Julia, Gurobi, Mosek	
SERVICE AND LEADERSHIP	<b>AI4OPT Student Leadership Council</b> Co-Chair and UC Berkeley Representative	2022 – Present
	<b>IEOR First Year PhD Mentorship</b> Mentor	2023 – Present
	<b>INFORMS UC Berkeley Student Chapter</b> Organizer and Member	2023 – 2024
	<b>Society of Women Engineers</b> Invited Speaker	2021 – 2022
	<b>Berkeley Undergrad Research Program</b> Mentor	2021 – 2022
	<b>University of Toronto Women in Science &amp; Engineering (WISE)</b> Mentor & Speaker	2018 – 2022
	<b>University of Toronto NSight Student Mentorship Program</b> Chair & Mentor	2018 – 2020