

Pedro Sandoval Segura

CONTACT INFORMATION	2108 Brendan Iribe Center 8125 Paint Branch Drive College Park, MD 20742	(301) 405 2662 psando@cs.umd.edu http://cs.umd.edu/~psando
RESEARCH INTERESTS	I am broadly interested in computer vision and deep learning. Lately, my research focuses on adversarial examples and the benefits of adversarial training.	
EDUCATION	University of Maryland , College Park, MD Ph.D., Computer Science M.S., Computer Science <i>Scholarly Paper: "Adversarially Robust Segmentation Models Learn Perceptually-aligned Gradients"</i>	Expected May 2025 May 2021
	Harvey Mudd College , Claremont, CA B.S., Computer Science and Mathematics <i>Graduated with High Distinction</i>	May 2019
RESEARCH EXPERIENCE	Computer Vision Lab , University of Maryland Working with Prof. David Jacobs <ul style="list-style-type: none">Studying a variety of adversarial attacks for computer vision tasks	Aug 2020 - Present
	Institute for Systems Research , University of Maryland Graduate Research Assistant I Working with Prof. Dana Nau and Prof. William Regli <ul style="list-style-type: none">Investigated algorithms for heterogeneous team formation and temporal planningAuthored a publication for future submission	Aug 2019 - Aug 2020
	AMISTAD Lab , Harvey Mudd College Working with Prof. George Montañez <ul style="list-style-type: none">Studied notions of algorithm capacity and dataset complexityPublished findings in ICAART 2020	Jan 2019 - May 2019
	Neural Networks Group , Harvey Mudd College Working with Prof. Robert Keller <ul style="list-style-type: none">Explored programming language translation using a tree-to-tree modelPublished findings in an ICML workshop	Aug 2017 - May 2018
INDUSTRY EXPERIENCE	Facebook, Inc. Software Engineering Intern, Project LightSpeed <ul style="list-style-type: none">Implemented and monitored new share flow functionality for encrypted Messenger threads, allowing users to forward text, sticker, photo, audio, and video securelyReceived a full-time offer at the conclusion of internship	Summer 2018
	Facebook, Inc. Software Engineering Intern, Messenger Groups <ul style="list-style-type: none">Designed and built MVVM architecture for a new Groups Tab approvals surface, enabling users to accept join requests across multiple group threadsOversaw, implemented, and ran an A/B test interleaving active groups in the Active Tab which drove topline metrics such as group sends and group creates	Summer 2017

	Facebook, Inc.	Summer 2016
	Facebook University for Engineering Intern	
	<ul style="list-style-type: none"> Organized engineering tasks, drafted feature ideas, and collaborated with a team of 3 to build InSync, an iOS app which synchronizes music on multiple devices 	
TEACHING EXPERIENCE	CMSC421: Introduction to Artificial Intelligence	Spring 2021
	Graduate Teaching Assistant, University of Maryland	
	CMSC421: Introduction to Artificial Intelligence	Fall 2020
	Graduate Teaching Assistant, University of Maryland	
	CMSC436: Programming Handheld Systems	Fall 2019
	Graduate Teaching Assistant, University of Maryland	
	CS81: Computability and Logic	Spring 2019
	Teaching Assistant, Harvey Mudd College	
	MATH187: Operations Research	Spring 2019
	Grader, Harvey Mudd College	
HONORS AND AWARDS	Google CS Research Mentorship Program (CSRMP)	2021
	Richard Tapia Conference Scholarship	2020
	CRA-WP Grad Cohort for URMD	2020
	UMD International Conference Student Support Award	2020
	UMD Dean's Fellowship Program	2019 - 2020
	ARCS Scholarship, Los Angeles Chapter	2016 - 2019
	Students Rising Above Scholarship	2015 - 2019
PUBLICATIONS	4. Bashir, Montañez, Sehra, Sandoval Segura , Lauw. "An Information-Theoretic Perspective on Overfitting and Underfitting". In <i>Australasian Joint Conference on Artificial Intelligence (AJCAI)</i> , 2020.	
	3. Sandoval Segura , Lauw, Bashir, Shah, Sehra, Macias, Montañez. "The Labeling Distribution Matrix (LDM): A Tool for Estimating Machine Learning Algorithm Capacity". <i>12th International Conference on Agents and Artificial Intelligence (ICAART)</i> , 2020. arXiv:1912.10597	
	2. Drissi, Sandoval , Ojha, Medero. "Harvey Mudd College at SemEval-2019 Task 4: The Clint-Buchanan Hyperpartisan News Detector". In <i>Proceedings of The 13th International Workshop on Semantic Evaluation (SemEval)</i> , 2019. arXiv:1905.01962	
	1. Drissi, Watkins, Khant, Ojha, Sandoval , Segev, Weiner, Keller. "Programming Language Translation using a Grammar-Driven Tree-to-Tree Model". <i>ICML Workshop on Neural Abstract Machines and Program Induction v2 (NAMPI)</i> , 2018. arXiv:1807.01784	
LEADERSHIP AND OUTREACH	CS Department M.S. and Ph.D. Admissions Committee	Spring 2020
	UMD Graduate Student Government Representative	Fall 2019
	JumpStart Computing Workshop, Iribe Initiative for Inclusion & Diversity in Computing	Fall 2019
PERSONAL INFORMATION	Citizenship: United States	
	Language: English, Spanish	