Julian Collado Umana

Ph.D. Candidate of Computer Science

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▬▬▬ Work Experience

Summer 2019	**Data Science Intern, Electronic Arts Redwood City**
Summer 2018	**Data Analyst Intern, Blizzard Entertainment Irvine**
Summer 2017	**Data Science Intern, Blackberry-Cylance Irvine**
Summer 2016	**Software Engineer Intern, Canon Information and Imaging Solutions Irvine**
2013-2014	**Interim Professor in Physics, University of Costa Rica**

▬▬▬ Education

2014–2020	**University of California Irvine, Ph.D.**
	Computer Science
	Thesis: "Machine Learning in High Energy Physics"
2013	**University of Costa Rica, B.Sc.**
	Physics

▬▬▬ Honors and Awards

2017-2019	Machine learning in the Physical Sciences (MAPS) Fellow
2016	Machine learning in the Physical Sciences (MAPS) Honorary member

▬▬▬ Journal Publications

2016	**Jet flavor classification in high-energy physics with deep neural networks**
	D Guest, J Collado, P Baldi, SC Hsu, G Urban, D Whiteson
	Physical Review D 94 (11), 112002

▬▬▬ Peer-reviewed Conference Publications

2019	**Sparse Image Generation with Decoupled GenerativeModels**
	Y Lu, J Collado, K Bauer, D Whiteson, P Baldi
	Machine Learning and the Physical Sciences at NeurIPS)
2019	**Convolutional neural networks for energy and vertexreconstruction in DUNE**
	I Seong, L Hertel, J Collado, L Li, N Nayak, J Bian, P Baldi
	Machine Learning and the Physical Sciences at NeurIPS)
2018	**Sherpa: Hyperparameter Optimization for Machine Learning Models**
	L Hertel, J Collado, D Whiteson, P Baldi
	Machine Learning Open Source Software (MLOSS at NeurIPS)
2015	**Deep learning, dark knowledge, and dark matter**
	P Sadowski, J Collado, D Whiteson, P Baldi

JMLR: Workshop and Conference Proceedings 42:81-97 (NeurIPS)

Professional Service

Reviewer   Journal: Neural Networks

Mentoring and Group Leadership

Member   Women in Cybersecurity, University of California Irvine
Founder   Machine Learning Reading Group, Physics Department, University of California Irvine
Mentor   Alexis Romero, Physics Ph.D. Student University of California Irvine

Talks and Tutorials

2018   How to Apply to Graduate School, University of Costa Rica
2018   Neural Networks in Statistics, University of Costa Rica
2018   Introduction to Deep Learning, University of Costa Rica
2018   Data Science in Industry, University of Costa Rica
2018   Introduction to Neural Networks in Python, University of California Irvine
2017   Introduction to Neural Networks in Python, University of California Irvine

Technical Skills

Programming   PYTHON, JAVA, SQL

Teaching Experience

2019   Teaching Assistant, Machine Learning, University of California Irvine
2016   Teaching Assistant, Critical Writing, University of California Irvine
2015   Teaching Assistant, Linear Algebra, University of California Irvine
2013   Instructor, General Physics Laboratory, University of Costa Rica

Languages

English   Fluent
Spanish   Fluent
French   Basic