

# Stephen Iota

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EDUCATION	<b>M.Sc., Computer Science</b> , University of Southern California <i>Focus in Machine Learning and AI</i>	Exp. 2023
	<b>B.Sc., Physics</b> , University of California, Riverside <i>Focus in Condensed Matter Physics</i>	2015 – 2019
EXPERIENCE	<b>Graduate Student Researcher</b> , USC Viterbi School of Engineering Causal reinforcement learning. <i>Advisor: Prof. Laurant Itti</i>	Mar. 2021 – Dec. 2022
	<b>Data Science Intern</b> , Information Science Institute Social network analysis; ML for Geosciences. <i>Advisors: Prof. Kristina Lerman &amp; Prof. Yolanda Gil</i>	Jan. 2021 – Dec. 2021
	<b>Undergraduate Student Researcher</b> , UC Riverside Micromagnetic simulations of high-order magnon interactions. <i>Advisor: Prof. Igor Barsukov</i>	Mar. 2018 – Aug. 2019
	<b>Computer Vision Intern</b> , NASA Ames & Lawrence Berkeley Lab Detection and segmentation of 3D X-ray tomography data. <i>Advisor: Dr. Francesco Panerai</i>	Summer 2018
	<b>REU Intern</b> , High Pressure Science & Engineering Center, Las Vegas, NV. Hard X-ray photochemistry. <i>Advisor: Prof. Michael Pravica</i>	Summer 2017
PUBLICATIONS	S.A. Sontakke*, <b>S. Iota</b> *, Z. Hu*, A. Mehrjou, L. Itti and B. Schölkopf. GalilAI: Out-of-Task Distribution Detection using Causal Active Experimentation for Safe Transfer RL. <i>In Proceedings of the 25th International Conference on Artificial Intelligence and Statistics</i> , 28 – 30 Mar. 2022. <a href="https://arxiv.org/abs/2110.15489">arXiv:2110.15489 [cs.LG]</a> .	
	B. Nettasinghe, N. Alipourfard, <b>S. Iota</b> , V. Krishnamurthy and K. Lerman. Scale-free degree distributions, homophily and the glass ceiling effect in directed networks. <i>Journal of Complex Networks</i> , Apr. 2022. <a href="https://doi.org/10.1093/comnet/cnac007">doi:10.1093/comnet/cnac007</a> .	
POSTERS & PRESENTATIONS	<b>S. Iota</b> , J. Liu, M. Lyu, B. Pan, X. Wang, W. AbdAlmageed, G. Gill, M. Mookerjee, Y. Gill. Automatic Detection and Classification of Rock Microstructures through Machine Learning. <i>American Geophysical Union Fall Meeting</i> , Dec. 2021. <a href="https://doi.org/10.1002/essoar.10508800.1">doi:10.1002/essoar.10508800.1</a> .	
	R. Rodriguez, <b>S. Iota</b> , M.R.K. Akanda, R. Lake, I. Barsukov. Micromagnetic Study of Magnon Thermodynamics. <i>Energy Frontier Research Center (EFRC) PI Meeting</i> , Jun. 2019.	
	<b>S. Iota</b> , M. MacNeil, F. Panerai, D. Parkinson, H. Barnard, D. Ushizima. Fiber Detection and Tracking for microCT Analysis of Entry Systems Parachute. <i>Advanced Light Source User Meeting</i> , Oct. 2018. <a href="#">Poster</a> .	
	<b>S. Iota</b> . Investigating Machine Learning for the Inspection of Supersonic Parachutes. <i>Machine Learning for Science Workshop, NERSC Data Day, Lawrence Berkeley Lab</i> , Sep. 2018. <a href="#">Slides</a> .	
OUTREACH & MEMBERSHIPS	<b>Research Fellow</b> , USC AI Safety	Fall 2022
	<b>Member</b> , USC Graduates Rising in Data Science (GRIDS)	2020 – 2021
	<b>Outreach Coordinator</b> , Barsukov Lab, UCR	2018 – 2019
	<b>Social Chair</b> , UCR Astronomy Club	2017 – 2018
	<b>Design Director</b> , UCR Engineers Without Borders	2016 – 2017

**UC Riverside Courses**

*SI Leader*, Physics 40B: Waves and Thermodynamics

Spring 2019

*SI Leader*, Physics 40A: Classical Mechanics

Winter 2019

*SI Leader*, Physics 40C: Electromagnetism

Fall 2018

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