Jason Saroni

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github: github.com/jsaroni

EDUCATION		
 Iowa State University (ISU) – Ames, Iowa, USA Doctor of Philosophy in Physics and Quantum Computing, Ames National Lab Graduate Research Assistant Top score in PhD qualifying exam, classical physics Quantum Algorithms Member of Fermilab's SQMS Center IBM Qiskit Advocate Certified Qiskit Developer 	Aug 2019 – May 2025	
Brandeis University – Massachusetts, Waltham, USA	Aug 2017 - May 2019	
Master of Science in Physics Jniversity of Notre Dame– Indiana, South Bend, USA	Aug 2012 - May 2016	
Bachelor of Science with major in Physics	с .	
Hesburgh-Yusko Scholar 2016		
Sigma Pi Sigma National Physics Honor Society member		
African Leadership Academy (ALA) – Johannesburg, South Africa	2010-2012	
Leadership, Entrepreneurship, and African Studies curriculum		
Top in 11 th grade SAASTA South African Olympiad physical sciences 2011		
Completed Cambridge A-level Exams in Physics, Chemistry, Math, and English		
Lesotho High School – Maseru, Lesotho	2006-2010	
• Top performer in national Junior Certificate exam 2008		
EXPERIENCE		
Condensed Matter Physics Research – Waltham, South Bend, and Ames,	2012 – Present	
 2023 APS March Meeting Focus Session Speaker and Poster Presenter at SQMS Annual Retreat: Reconstruct 		
ynamics from Pure States	ing mermu quantum quener	
Online lightning talk at QCS/SQMS Quantum Algorithms Workshop 2022		
• 2022 APS March Meeting Focus Session Speaker: Simulating thermal quantum quenches with a variational of	quantum algorithm	
Graduate research assistance for condensed matter theory with research focus including quantum computing	research assistance for condensed matter theory with research focus including quantum computing at ISU	
• Used high performance computing cluster, Python, Julia, ITensor, ITensorNetworks, cuQuantum, Mathemati condensed matter physics simulations	ca, MATLAB, C, and C++ for	
· Awarded College of Science Summer Undergraduate Research Fellowship for 10 week research during the s	ummer of 2015 at the Univer	
of Notre Dame		
STEM Ambassador and Physics Club Co-President-South Bend, USA	2015-2016	
• Holding office hours every week to help retention of STEM students in my dorm and running physics club ac	ctivities at the University of N	
Dame Research Experience for Undergraduates –South Bend, USA	June 2014 – Aug 2014	
• Worked on ab-initio nuclear theory for 10 weeks in a Research Experience for Undergraduates (REU) progra		
• Made an oral poster presentation at the Summer Undergraduate Research Symposium (SURS) and a poster Undergraduate Research Fair (FURF), both at the University of Notre Dame	presentation at the Fair	
London International Youth Science Forum (LIYSF)–London, United Kingdom	2011	
· Selected for participation in LIYSF having achieved top spot in 11 th grade section of SAASTA South African sciences and the section of SAASTA south African sciences and the section of the section o	ence Olympiad physical scien	
Met leading experts in different fields and aspiring scientists from all over the world at Imperial Colle	ege London in a two-week sci	

immersion program First Author Quantum Related Paper Publication (Published in Physical Review B Oct/06/2023)

Reconstructing Thermal Quantum Quench Dynamics from Pure States, https://arxiv.org/pdf/2307.14508.pd	Jui 2025
Other Francisco a	

Other Experience

Womanium Global Quantum Scholarship achieving all certificates •

https://github.com/jsaroni/jsaroni/tree/main/Certificates%20and%20Badges/2023

• QHack 2023 won NVIDIA CUDA Quantum, IBM, and AWS powerups

•	MIT iQuHACK certificate of completion	Jan 2022
•	Advanced badges from 2022 and 2023 IBM quantum challenges	2022, 2023
•	Participated in IBM's open science quantum computing team projects	2020, 2021, 2023
•	Quantum computing and sensing summer school, USQIS summer school	2021, 2023
•	Graduate teaching assistance, Brandeis University and Iowa State University	2017 - 2021