## Daniel Padé

	Computer Scientist · Engineer · Mathematician	
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Univers	v of South Carolina	Columbia. SC
PH.D. IN C	MPUTER SCIENCE & ENGINEERING	Aug 2013 – Dec 2019
Boston University		Boston, MA
BA – Majo	NG IN PHYSICS	Aug 2007 - Jun 2011
Skill		
Program	ming Python (pandas, numpy, scikit), Spark(SOL), TensorFlow, Java, Scala, C, Haskell, Git, ध्रन्X, SO	L, HTML/CSS
Mather	atics Complexity Theory, Statistics, Universal Algebra, Algorithmic Design and Correctness	
Res	arch Quantum Optics, Semiconductors, Experimental Design	
Spec	Ities Physics of Computation, Quantum Computation, Computational Complexity, Type Theory, C	Computational Physics
Expe	ience	
The Dat	Incubator	New York, NY
Fellow		Jun 2019 – Aug 2019
Analyzed	subset of the Twitter user graph ( $pprox 4$ mil users) to determine influential users by speech content.	
Univers	y of South Carolina	Columbia, SC
Research Assistant		Aug 2013 – Dec 2019
Research	Computer Science/Mathematics. Specializing in Quantum Computation, Quantum Algorithms Circu	it Theory, Learning Machines, and
Computa	onal Complexity.	
University of South Carolina		Columbia, SC
Research	SSISTANT	Aug 2014 – Jun 2017
Research	1 Semiconductors and Quantum Optics. Created FDTD simulations for quantum dot and second harm	ionic generation experiments.
Analyzed	ver 1GB of data to predict electromagnetic radiation within quantum dots. Led group of 3 undergradu	ates in building and testing
electrosp	ning apparatus.	
Boston	niversity	Boston, MA
	ITION DEVELOPER/RESEARCH ASSISTANT	Jan 2011 - Jun 2012
Uark Matt	r and Neutron Time Projection Chamber Research Associate specializing in the simulation of a TPC da Land Geant4. Simulated and analyzed over 1GB of data to predict particle collisions	ark matter experiment through the
ANDCor		Boston, MA (remote)
Lead Simulation Developer		Jun 2012 – Aug 2013
Fast Neut	on Detector Worked in collaboration with MIT to provide an alternative fast-neutron detector to aid in t	the detection of nuclear materials.
Primarily	sed MCNP/X and Geant4 toolkits in digitizing the detector physics. Simulated and analyzed over 1GB c	of data in to verify detector response
to particle	collisions.	
Univers	y of South Carolina	Columbia, SC
Lecturer		Aug 2014 – May 2017
Topics ind	uded Computer Architecture and Low Level Programming (MIPS/C programming & architecture); Four	ndations of Computer Science
(Automat	/Language theory, Regular Expressions), and Introduction to Programming (Basic Techniques and Dat	a Structures in Java).
Hone	rs & Awards	
2014	1 <sup>st</sup> <b>place</b> , Boeing Hackathon	Columbia. SC
2015	Outstanding Graduate Instructor, USC Graduate School	Columbia, SC
2015	2 <sup>nd</sup> place, Gamecock Computing Symposium	Columbia, SC
Publ	cations (Selected)	

Glass-panel <sup>6</sup> Li neutron detector.	
Inglis, A., Rosenfeld, E., Yellen, M., <b>Pade, D.</b> , Damask, S., Hazen, E., Ahlen, S., Tomita, H., & Hartwig, Z.	

HST IEEE 2012