Joseph Curtis
Nuclear Engineer
Radiation Detection ⊕ Big Data ⊕ Medical Imaging

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education

2012–2014 (Fall)	**Masters of Science** Nuclear Engineering (GPA 3.84)	University of California, Berkeley
	Benchmarking the Gamma Ray Sensors Aboard a Mobile Platform	
2007–2011	**Bachelor of Science** Nuclear Engineering (GPA 3.86)	University of California, Berkeley
	Honors Thesis: Measurements and Analysis of Fukushima Fallout by BRAWM	

awards

2014	Member of Alpha Nu Sigma	American Nuclear Society Honor Society
2013	Outstanding Graduate Student Instructor	Graduate Division, UC Berkeley
2011	Departmental Citation (Top GPA in graduating class)	Dept of Nuclear Engineering, UC Berkeley
2009	The Virgil Schrock Scholarship	Dept of Nuclear Engineering, UC Berkeley
2009	Member of Tau Beta Pi	National Engineering Honor Society

experience

Aug '12 – Present	**Graduate Student Researcher**	Lawrence Berkeley National Laboratory
	Experimentally validating Monte-Carlo and raytracing gamma-ray physics simulations.	
Aug '11 – Aug '12	**Junior Specialist**	Dept of Nuclear Engineering, UC Berkeley
	Supported graduate radiation laboratory course with signal processing coding, machining and teaching.	
Mar '11 – May '11	**Honor's Research Assistant**	Dept of Nuclear Engineering, UC Berkeley
	Analyzed environmental samples for Fukushima Daiichi Reactor fallout monitoring.	
Jun '10 – Aug '10	**Lab Technician & Instructor**	UC Berkeley & University of Tokyo
	Trained students from the United States and Japan to perform digital radiation detection experiments.	
Jan '09 – Dec '09	**Thermo-Hydraulics Research Assistant**	University of California, Berkeley
	Designed and experimentally verified a first order fluid mechanics model in MATLAB.	
Jan '09 – May '09	**Field Tester**	California Center for Innovative Transportation
	Aggregated traffic data with cell phone based GPS equipment by driving a test vehicle.	

leadership

2009–2014	**Engineering for Kids Day (E4K)**	College of Engineering, UC Berkeley
	Coordinated logistics and safety for 300+ children during annual engineering outreach program.	
2012–2013	**Head Graduate Student Instructor**	Dept of Nuclear Engineering, UC Berkeley
	Led three other instructors to setup, conduct, teach and assess undergraduate course experiments.	
2008–2011	**American Nuclear Society**	Student Chapter, UC Berkeley
	Managed operations, organized outreach and liaised with national chapter as secretary, vp and president.	
2009–2010	**Engineers Joint Council**	College of Engineering, UC Berkeley
	Facilitated annual budget allocation of college-wide funding for engineering student groups.	
2009	**Tau Beta Pi**	Student Chapter, UC Berkeley
	Managed external relations with other student societies to foster collaborative relationships.	

skills

Programming: Python, MATLAB, git, Bash, HDF5, SLURM, LaTeX, CSS & HTML
Techniques: Scalable high performance computing, Monte-Carlo methods, uncertainty analysis, gamma-ray spectroscopy