$Rajeev\ Jain$  Principal Research Software Developer  $\cdot$  Argonne National Laboratory  $\cdot$  Mathematics and Computer Science ♠ rajeeja.github.io ☑ jain@anl.gov in linkedin ☎ google scholar ♠ github

## EDUCATION

	EDUCATION	
2017 – 2020	Masters of Science Computer Science	University of Chicago
2007 – 2009	Master of Science Structural Engg. (Minor Computer Science) Thesis title: "Blast Mitigation solutions via FEM-Based Design Optimization."	Arizona State University
2002 – 2006	B.Tech Mechanical Engineering	IIT Dhanbad, India
	Work Experience	
2018 – 2022	Principal Research Software Specialist, Mathematics and Computer Science Argonne National Laboratory	
2011 – 2018	Software Developement Specialist, Mathematics and Computer Science	Argonne National Laboratory
2009 – 2011	Pre-doctoral Appointee, Mathematics and Computer Science	Argonne National Laboratory
2013 - 2014	Research and Teaching Assistant, Civil Engineering in the School of Sustainable Engineering and the Built Environment  ARIZONA STATE UNIVERSITY	
2006 – 2007	Project Engineer, SAP/Java Wipro Technologies, Bangalore/Hyderabad, India	
Summer 2005	Research Trainee, Engineering Research Division	Tata Motors, Pune, India
Summer 2004	Trainee Process Engineer, Research and Development	Bhilai Steel Plant, Bhilai, India
	SOFTWARE DEVELOPMENT PROJECTS	
2016 – present	Co-Developer, ECP-CANDLE  Published papers on model robustness with counterfactuals / noise injection and hyper-parameter optimization framework "Supervisor". Currently focussed on testing claims made by the recent cancer drug-response papers, creating a framework for understanding model sensitivity and XAI	
2018 – present	Co-Developer, Flash-X	Documentation
·	Designed/coded asynchronous write and compression of HDF5 checkpoint file. Help with performance benchmarking o DOE supercomputers, CI, documentation. Review/manage GitHub policies, actions, PRs, issues etc.	
2020 – present	Co-Developer, UXarray	GitHub link
	Helped design and code the first draft of the UXARRAY API, wrote python functionstructured grids.	ons to integrate and read/write
2009 – 2016	Lead Developer, MeshKit	BitBucket link
	Principal Investigator for MeshKit (mesh generation C++ toolkit) for the reactor geometry generation package. Wrote several mesh/geometry generation algorithms and published in peer-reviewed conferences/journals.	
	Honors	
2010 – present	Mentor, Supervised several summer students/postdocs and staff members — Argonne National Laboratory NUMGRID 2020 Invited: Program Committee Member, Managed and reviewed papers	
2015	Reviewer and Session Chair Computational Geometries, SNA and MC conference	
2015-2017		ITWARE INC. FOR SBIR PHASE I AND II
2007 – 2009	Basis of this work was my tool RGG, click on the link for details  University Graduate Fellowship, \$4000	Arizona State University
2004 - 2004		Kharagpur and MINDA Ltd. Delhi

## Interests

Software Development, Research, AI, Blockchain