

Majid Rasouli

Curriculum vitae

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EDUCATION

2015 – PRESENT	Computer Science PHD CANDIDATE, 3.86/4 <i>University of Utah, USA</i>
2011 – 2013	Mathematics MASTERS, 16.31/20 <i>Sharif University, Iran</i> <i>Ranked No.1 in Iran on QS</i>
2006 – 2011	Mathematics BACHELORS, 15.03/20 RECEIVED CERTIFICATE OF TOP 3 GRADUATES AMONG 20 <i>Amirkabir University, Iran</i> <i>Ranked No.2 in Iran on QS</i>

SOFTWARE SKILLS

MAIN	C++ (3+ years experience) , git, MPI, OpenMP (Multithread), Linux, SLURM
PROTOTYPING	MATLAB, Julia
VISUALIZATION	Paraview, Javascript, CSS, D3
FAMILIAR	Python, R Studio, PySpark, Linux, Bash
GAME ENGINE	Basic: Unreal Engine, Unity

HONORS AND AWARDS

- Certificate for Graduation as **Top 3 GPA's** Among 20 in 2006 Class, Bachelors in Mathematics
- Ranked in **Top 1 Percent** in The National University Entrance Exam for Masters Degree, 2011, Iran.
- Scholarship for International HPC Summer School 2017, University of Colorado, Boulder
- Scholarship for SDSC Summer Institute 2018, San Diego Supercomputer Center, UCSD

WORKSHOPS

2017	International HPC Summer School ATTENDEE <i>University of Colorado – Boulder</i>
2018	SDSC Summer Institute 2018 ATTENDEE <i>San Diego Supercomputer Center</i>

SELECT COURSES

UNDERGRAD	Basic Programming (C), Advanced Programming (C++), Linear Algebra, Logic, Numerical Linear Algebra, Probability and Stat 1 & 2,
GRADUATE	Advanced Algorithms, Algorithms and Approximation, Parallel Computing HPC, Big Data Computer Systems, Advanced Scientific Comp 1 & 2, Inverse Problems, Visualization

EXPERIENCES

2015-Now	Graduate Research Assistant DR. HARI SUNDAR'S LAB <i>University of Utah</i>
FALL 2016	Teaching Assistant PROBABILITY AND STATISTICS <i>University of Utah</i> <i>Helped students with R Studio</i>
FALL 2017	Teaching Assistant FOUNDATIONS OF DATA ANALYSIS <i>University of Utah</i> <i>Helped students with Python to do basic Machine Learning</i>

PROJECTS

	JAN 2016 – PRESENT
Developer	
Saena	
Saena is a highly scalable algebraic multigrid solver written in C++ parallelized with <i>MPI</i> and <i>OpenMP</i> . It does different linear algebra operations in serial and parallel. I have started this library as the only developer, under supervision of Dr. Hari Sundar. https://github.com/majidrp/Saena	

	ACCEPTED PAPER
Developer, Paper First Author	
Matrix-Vector Product Optimization	
We have optimized matrix-vector product, which is the most important operation in algebraic multigrid. It is implemented in Saena (C++). The paper is accepted in IEEE HPEC18 .	

	AVAILABLE
Coder	
USA Demographic Analysis	
Used <i>Javascript</i> , <i>CSS</i> and <i>D3</i> to make a visualization for USA demography. https://majidrp.github.io/DemographicAnalysis/ To see all the projects please check my linkedin page.	