Can Pu

https://canpu.github.io Email: pucan@mit.edu

EDUCATION

Ongoing	Mass. Institute of Technology	M.S. in Nuclear Science and Engineering	
Ongoing	Georgia Institute of Technology	M.S. in Computer Science	GPA: 4.0/4.0
2018	Texas A&M University	M.S. in Mathematics	GPA: 4.0/4.0
2015	Texas A&M University	B.S. in Nuclear Engineering (Summa Cum Laude)	GPA: 4.0/4.0

EMPLOYMENT AND RESEARCH

2018	Grader at Department of Mathematics of Texas A&M University Differential Equations (4 sections)
2015 – 2017	Research Assistant at the Center for Large-Scale Scientific Simulations Numerical Methods for the Integro-Differential Boltzmann Transport Equation
2014 – 2015	Undergraduate Research Scholar Program The Canonical Form of the Simplified Spherical Harmonics Expansion with An Asymptotic Quadrature Set
2013	Undergraduate Summer Research Grant Diffusion between Nickel and Iron
2012 - 2013	Aggie Challenge Research Nuclear Material Storage Site Selection Using Geo-Cyber Analysis

COMPUTER SKILLS

Mathematical Software	Matlab, Mathematica, Maple
Programming Language	C++, Python, C, R, Java
Web Development	HTML, CSS, Sass, JavaScript, jQuery, AJAX, Bootstrap, PHP
Numerical Library	Eigen, NumPy, deal.II
Hybrid Programming	MEX, MATLAB engine
Parallel Computation	MPI, OpenMP, CUDA

RELEVANT COURSES

Math	Calculus, Linear Algebra, Methods of Mathematical Physics, Tensor, PDEs, Numerical Analysis, Numerical PDEs, Riemann Solvers, Graph Theory, Applied Harmonic Analysis, Real Variables, Applied Analysis, Optimization, Linear Programming
Statistics	Probability and Statistics, Time Series, Experimental Design and Analysis, Statistical Inference, Algorithms of Inference
Computer	Computer Fundamental, C Programming, C++ Programming, Parallel and Distributed Numerical Algorithms, Analog Electronics, Digital Electronics, Design of Electronic Systems, Software Engineering, Database Systems
MOOC	Principles of Computing, Interactive Python Programming, Neural Networks and Deep Learning, Front End Web Development

AWARDS

2018	Theos J Thompson Memorial Fellowship	Massachusetts Institute of Technology
2015	Graduate Assistantship – Research	Texas A&M University
2014	Adams Family Scholarship	Texas A&M University
2013	Dean’s Honor Award	Texas A&M University
2013	Jeff W Simmons '85 Scholarship	Texas A&M University
2013	Undergraduate Summer Research Grant	Texas A&M University

PUBLICATIONS

[1] Pu, C., McClarren, R. G. (2017). Mathematical and numerical validation of the simplified spherical harmonics approach for time-dependent anisotropic-scattering transport problems in homogeneous media. Journal of Computational and Theoretical Transport, 46(5), 366-378.