

Jason N. Morrow

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Education

Tufts University	M.S. Electrical Engineering GPA: 3.6	2017
University of Pittsburgh	B.S. Mathematics Physics and E. E. Minors GPA: 3.9, Summa Cum Laude Culver Mathematics Award John O. Blumberg Memorial Scholarship	2014 2013 2013

Experience

Tufts University , <i>Research Assistant</i>		2015–2017
• Completed a biological image processing research project		
Schneider Electric , <i>Systems Intern</i>		2014
• Took leadership role in directing interns		
• Tested prototype programmable logic controllers		
• Trained software development engineers to perform and test installation procedures		
• Applied electronic hardware and Windows software skills		
University of Pittsburgh , <i>Mathematics Tutor & Teaching Assistant</i>		2012–2014
• Led Algebra and Trigonometry recitations		
• Tutored undergraduate students in multiple math classes		

Projects

<i>Automatic Muscle Histology</i>		2015–2017
• Developed innovative image processing algorithms to analyze muscle fiber		
• Utilized Support Vector Machines, Random Forest classifiers, and binary morphology		
• Applied Machine Learning, Image Processing, and Matlab coding		
<i>Mumford-Shaw Application</i>		2015
• Used a PDE to segment muscle fiber images		
• Applied Matlab coding and numerical methods		
<i>Guitar Chord Recognition</i>		2013
• Developed a an application to recognize musical chords		
• Applied Wavelet transforms and Matlab coding		
<i>Fractal Dimension Review</i>		2013
• Surveyed and clarified the various mathematical definitions of dimension		

Courses

Digital Image Processing, Computational Partial Differential Equations, Statistical Pattern Recognition, Differential Geometry, Information Theory, Data Mining, Computation Theory, Multimedia Data Compression, Digital Signal Processing, Data Structures

Skills

Deep Learning, Statistical Pattern Recognition, Signal Processing, Image Processing, Android Development

Programming Languages: Matlab, Java, C, Python (Numpy and Tensorflow), Javascript, SQL

Other Technologies: Linux, L^AT_EX, HTML, XML, MS Office