Jesse GOODSPEED

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Research Interests

Computational cognitive science, general machine learning and their applications to address real-world challenges.

Education

2014-2017 **BA, Department of Computer Science**, *Hunter College*, New York, NY.
Current GPA (Overall/Major): 3.74/3.66
Expected Graduation Date: May 2018

2008 **BA**, *Soka University of America*, Aliso Viejo, CA.

Research Experience

2015–2017 **Hunter College**, *Problem Solving and Machine Learning Laboratory*, New York, NY, Undergraduate Researcher.
○ Participated in weekly lab meetings to discuss and critique current lab research.
○ Presented AI conference papers to provide lab members a better understanding of current developments in the field.
○ Implemented image processing tools for experimental work in robot navigation.

Summer 2017 **University of Massachusetts Amherst**, *BINDS Lab*, Amherst, MA, Research Intern.
○ Researched literature on current developments with ANNs that facilitate spike-time-dependent plasticity.
○ Leveraged deep learning features such as convolution layers to improve a spiking neural network.
○ Ran experiments in an HPC environment to collect data, optimize hyperparameters, and evaluate performance.

Teaching Experience

Fall 2017 **Undergraduate Teaching Assistant**, *Hunter College*, Department of Computer Science.
○ Assisted recitation sections for introductory computer science course.
○ Maintained office hours to tutor introductory students outside of class.
○ Tutored students for topics that include programming in Python and C++, Unix commands, basic circuits, and simple machine language.

Related Professional Skills

Jan 2017 **Quantitative Methods Workshop**, *Massachusetts Institute of Technology*, Cambridge, MA.
○ Invited attendee.
○ Learned techniques for data processing and analysis, using Python and MATLAB.

Programming Languages and Tools

Python, C++, MATLAB, Lisp, Git, LaTeX.

Honors and Awards

2015–2017 **Dean's List**, *Hunter College*.

Sept 2017	**Charlotte W. Newcombe Foundation Scholarship**, *Hunter College.*
May 2017	**NSF Scholarship-Research Experience for Undergraduates**, *University of Massachusetts Amherst.*
Feb 2016	**Mother's Day Scholarship**, *Hunter College.*
2003–2007	**Joe Martin Scholarship for Good Citizenship**, *Bank of America.*

Professional Memberships

Association for Computing Machinery (ACM)