

# Andrew D. Lott

215 E. 4th St. Apt. #16, New York, NY, 10009

andrewlott@gmail.com (631) 466-4113

## Education

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**Bachelor of Arts, Computer Science - New York University**

*Conferred: Jan 2012*

- Minors: Physics, Mathematics, Environmental Science
- GPA: 3.31 (Major GPA: 3.53), Dean's List Fall 2009 - Spring 2010

## Relevant Experience

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**Research and Development Intern - SocialFlow; New York, NY**

*May 2011 - Aug 2011*

- Designed and implemented interactive visualizations of clients' Twitter and bitly data, using the Google Maps Javascript API extensively with jQuery, HTML, KML, and CSS
- Identified and plotted trends in Twitter and bitly data using Python (matplotlib) and MySQL

**Research Assistant - Courant Institute of Mathematical Sciences**

*May 2010 - Sept 2010*

- Developed auxiliary Python software for monitoring node status in the local research network
- Configured node monitoring and notification software (Nagios, Ganglia) for the local network

**Research Assistant - Physics Department at New York University**

*May 2009 - July 2009*

- Simulated the shape and appearance of circumstellar envelopes of AGB stars in MATLAB
- Derived formulae for simulating circumstellar envelopes of AGB stars

## Selected Projects

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**Apollonian Gasket Applet - Independent; 2012**

*andrewlott.com/apollonian*

- A Processing applet that generates Apollonian Gasket fractals based on initial conditions

**Java to C++ Translator - Group Final Project for Object-Oriented Programming; 2011**

- Translates Java source code into equivalent C++, using our own inheritance scheme in lieu of C++'s inheritance (The project is heavily reliant on the xtc library)

**Last.fm Concert Aggregator - Independent; 2011+**

*andrewlott.com/lastfm/lastfm.html*

- A service that uses the Last.fm API to gather location-specific concert information

## Skills

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- Proficient: Java | Javascript | Processing | Python
- Familiar: Bash | C | C++ | Objective-C | Git | Lush | MATLAB | MySQL | Ruby | Scheme
- Platforms: Mac OS X | Ubuntu Linux | Red Hat Linux
- Natural Languages: English (Native) | Spanish (Intermediate Level) | Japanese (Beginner Level)

## Awards and Publications

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- Huggins, P. J.; Lott, A. D.; Greenfield, B. L., 2010, The Shapes of Planetary Nebula Halos, Bulletin of the American Astronomical Society, vol. 42, p. 472
- New York University Arch Scholarship

## Activities

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- Association for Computing Machinery 2009 - 2011 (Vice President)
- Programming Team 2009 - 2011
  - Placed 11th overall (4th among S2 teams) in the Greater New York Regional competition in 2011
- HackNY Fellow 2011