MARGO SMITH

1300 York Avenue
New York, NY 10065
margo.lee.smith@gmail.com

39-05 27th Street, Apt 3F
Long Island City, NY 11101
412.953.0180 (cell)

_____

EDUCATION

Presenting Data and Information, Edward Tufte – New York, NY   October 2013
  One-day seminar on methods and design of effective presentations of quantitative information

Data Science, General Assembly – New York, NY   June 2013 – August 2013
  Course covers fundamental machine learning techniques and theory as well as providing technical
  instruction in R and Python and an introduction to Hadoop, Amazon AWS, and MySQL

Kenyon College - Gambier, OH   May 2012
  Bachelor of Arts in Mathematics (concentration on statistics) and Neuroscience
  3.65/4.00 Cumulative GPA, awarded a Science Honors Scholarship, Merit List 2008-2012

Budapest Semesters in Mathematics – Budapest, Hungary   Spring 2011
  Courses include Topology, Mathematical Problem Solving, Combinatorics, Bio-informatics, and
  Hungarian Language. 3.75/4.00 GPA

WORK EXPERIENCE

Infographic Designer – self-employed, New York, NY   January 2013 – Present
  • Analyze data and work with clients to develop a story around their data
  • Create elegant, accurate visual representations of this story

Computational Modeler - Christini Lab, Weill Cornell Medical College, New York, NY   August 2012 – Present
  • Set-up and run multiscale simulations of atrial cardiomyocytes
  • Analyze and present data from simulations in order to generate new hypotheses about the
    mechanisms of atrial fibrillation

Tutor – Pinnacle Prep, Brooklyn, NY   August 2012 – Present
  • Tutor students for the SAT/ACT/PSAT as well as math, chemistry, biology, and physics
  • Work with other tutors to create new reference materials to aid our students

Research Assistant - McFarlane Lab, Kenyon College, Gambier, OH   August 2009 – May 2012
  • Design and execute experiments to test response to amphetamines in model strain of mice
  • Analyze and interpret the data collected in relation to autism

Researcher – Research in Industrial Projects for Students, UCLA, Los Angeles, CA   Summer 2011
  • Improve search capabilities of the USC Shoah Foundation Institute MySQL database
  • Write and present reports for industrial sponsors throughout the summer

REU Participant – Weber Lab, University of Pittsburgh, Pittsburgh, PA   Summer 2010
  • Manually create map of the organization of neurons in the dorsal root ganglion of cats
  • Use Matlab to automate the same process and compare results using statistical measures

TECHNICAL SKILLS:

Expert
  Statistics, Machine Learning, Matlab, C/C++, R, Python, Adobe Illustrator, LaTex, Maya 3D, Blender,
  Linux (command line), Mac OSX, Windows

Proficient
  HTML/CSS, Javascript, D3, MySQL, Amazon AWS, Hadoop, various APIs