Angelica Chen
☎ (848) 218-2228
ac17@princeton.edu

Education

Princeton University - Princeton, NJ   *Graduation: May 2017*
Degree Expected: Bachelor of Arts in Mathematics
Certificate Expected: Global Health and Health Policy
Affiliations: The American Whig Cliosophic Society (Director of Website & Technology), Innovation Magazine (Writer, Web Designer), The Daily Princetonian (Operations Consultant), Taiwanese American Student Association (Executive Board Member)

Stanford University Online High School - Palo Alto, NJ   *Graduated May 2013*
Relevant Coursework: Logic, Linear Algebra, Differential Equations

High Technology High School - Lincroft, NJ   *Graduated June 2013*
Relevant Coursework: Multivariable Calculus, Introduction to Engineering, Object Oriented Programming, Structured Programming in C++, Game Programming I, Game Programming II

Experience

Institut de recherche pour le développement (IRD), Research Intern, June 2014 - Present

- Compiled a global bacterial meningitis incidence database
- Conducted a comparative study of bacterial meningitis seasonality

Courant Institute of Mathematical Sciences, Artificial Intelligence Research Intern, Jun. - Aug. 2013

- Formulated logical axioms describing human common sense and proved them using SPASS
- Published research for the 2nd Annual Conference on Advances in Cognitive Systems

Alcatel-Lucent Bell Labs, Research Intern, Jan. - Jun. 2013

- Conducted mathematical analysis of wireless data traffic using Mathematica
- Analyzed emptying time for paused slotted ALOHA systems

Heffner Biomedical Imaging Laboratory, Research Intern, May - Nov. 2012

- Developed a software for predicting patients risk of developing severe complications after undergoing transcatheter aortic-valve replacement (TAVR) using Python and MATLAB
- Published and presented algorithm for recognizing the aortic annulus at the 2012 IEEE Healthcare Innovation Conference

Mailman School of Public Health (Columbia University), Research Intern, Jun. 2011 - Mar. 2012

- Analyzed mortality/morbidity data of pandemic influenza using R
- Derived a mathematical model relating bacterial coinfections to influenza mortality in middle-aged patients
- Provided the CDC with recommendations for a modified vaccine program

Relevant Skills

Programming: Java, C++, Python; **Web Development**: HTML, CSS, PHP, Javascript, MySQL; **Data Analysis**: R, MATLAB, Mathematica

Publications

Reasoning from Radically Incomplete Information: The Case of Containers - *Advances in Cognitive Systems*. Davis, E., Marcus, G., Chen, A.; December, 2013

Development of an Automatic Algorithm for 3-Dimensional Aortic Annular Measurements for Prediction of Transcatheter Aortic Valve Replacement Outcome - *Proceedings of the 2012 IEEE Healthcare Innovation Conference*. Angelica Chen, *et al.*; November 8, 2012

Awards

Semifinalist, 2013 Intel Science Talent Search

Finalist, 2013 National Junior Science and Humanities Symposium

1st Place in Medicine & Health Sciences, 2011 New York City Science and Engineering Fair

Semifinalist (New York), 2010 SIEMENS Competition in Math, Science and Technology

Qualifier (Top 5% in the US), American Invitational Mathematics Exam

Outstanding Paper (Top 8 out of 518), 2012 COMAP High School Mathematical Contest in Modeling (HiMCM)

First place individual, Mid-Atlantic Region, 2011 - '12 AMATYC Student Math League