## Angelica Chen

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## EDUCATION

Princeton University - Princeton, NJ

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

Graduation: May 2017

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

l'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