Angelica Chen
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Education

Princeton University '17, *Magna Cum Laude*, Bachelor of Arts in Computer Science

- Honors: Outstanding Computer Science Senior Thesis Prize, Sigma Xi (Scientific Research Honor Society)
- Thesis: Prediction of Depression and Suicidality from Social Media Activity Using Deep Neural Networks

Experience

Two Sigma Investments, LP, Software Engineer, Aug. 2017 - Present

- Incoming member of the Alpha Capture Team

Facebook, Inc., Software Engineering Intern, Jun. - Aug. 2016

- Developed a data pipeline using Python, Presto and Hive for joining > 800 user-level features to form a training dataset for machine learning prediction of user sentiment
- Designed, trained and evaluated several types of neural network models using Python, Lua, Torch, and TensorFlow. Achieved 80% accuracy on user sentiment prediction task.
- Used PHP, Javascript, and CSS to implement a pinned unit at the top of the News Feed for providing tomorrow's weather forecast and an evening greeting

Bloomberg LP, Software Development Intern, Jun. - Aug. 2015

- Used C++, Javascript, and SQL to design a business intelligence dashboard for the Electronic Order Routing (EOR) division that provided aggregated statistics and data about Bloomberg's broker network

l'Institut de Recherche pour le Développement (IRD), Research Intern, Jun. - Aug. 2014

- Compiled first global database of bacterial meningitis incidence data via online data mining and conducted wavelet analyses in R and MATLAB to detect periodicity in meningitis mortality trends
- Published research as co-first author in *The Lancet Global Health*, providing the first global-scale epidemiological analysis of bacterial meningitis trends outside the African Meningitis Belt

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

- Formulated logical axioms describing human common sense and proved the axioms 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 and 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

Awards and Honors

Innovation's 25 Under 25: http://princetoninnovation.org/25u25/
2012 Intel Science Talent Search Semifinalist
Highest Female Individual Scorer, Mid-Atlantic Region, 2011 - 12 AMATYC Student Math League

Publications

Seasonal dynamics of bacterial meningitis: a time-series analysis - *The Lancet Global Health*. Paireau, J.*, Chen, A.*, Broutin, H., Grenfell, B., Basta, Nicole; June 2016.
http://www.thelancet.com/journals/langlo/article/PIIS2214-109X(16)30064-X/abstract

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.