

Andy Shi

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Education

Harvard School of Engineering and Applied Sciences, Cambridge, MA Class of 2016
S.M. Degree Candidate in Computational Science and Engineering (CSE)

Harvard College, Cambridge, MA Class of 2016
A.B. Degree Candidate in Statistics, Secondary Field in Computer Science | GPA: 3.82/4.0

Coursework: Probability, inference, (generalized) linear models, causal inference, scientific computing numerical methods, algorithms, machine learning, stochastic processes, data science, systems programming, linear algebra, real analysis, complex analysis, life sciences

Awards/Honors:

Howard Hughes Medical Institute (HHMI) Interdisciplinary Undergraduate Fellow 2014–2015

Harvard College Program for Research in Science and Engineering (PRISE) Fellow Summer 2014

Harvard Microbial Sciences Initiative (MSI) Undergraduate Summer Research Fellow Summer 2014

John P. Stevens High School, Edison, NJ Class of 2012
GPA: 4.1/4.33

Awards/Honors: American Invitational Math Exam (AIME) Qualifier [2012], USA Biology Olympiad Semifinalist [2011, 2012], Univ. of Toronto National Bio Exam Top Scorer [2012]

Experience

Huttenhower Lab, Harvard School of Public Health Cambridge, MA
Research Assistant January 2014–Present

Analyzing and investigating the human microbiome using a statistical and computational approach. Developing software to de-noise and sort metagenomic sequencing data (<https://bitbucket.org/biobakery/kneaddata>) and investigating power calculations in the context of the microbiome.

Harvard University Bureau of Study Counsel Cambridge, MA
Peer Tutor & ESL Peer Consultant September 2013–May 2014

Coached students in introductory computer science in a one-on-one setting. Also helped international graduate students practice conversational English and become familiar with Harvard and American culture

Yang Pengyuan Lab, Fudan University Shanghai, China
Summer Research Student June 2013–August 2013

Correlated proteomes of liver cancer cells and their metastatic potentials using mass spectrometry. Worked under the direction of Harvard and Fudan professors in a study abroad program

Skills

Programming: Proficient in R, Python, C, OCaml, PHP. Familiar with Java, MySQL, Javascript, MATLAB, Mathematica, \LaTeX , Bash, Unix operating systems

Languages: English (native), Mandarin Chinese (proficient), French (working proficiency)