

CYNTHIA ZENG

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EDUCATION

Imperial College London | BSc in Mathematics Oct. 2014 - Jun. 2017
First-class honours · top 15% class rank
Western Academy of Beijing | International Baccalaureate Diploma Aug. 2011 - Jun. 2014
International high school · IB grades: 41/45 · academic awards: Economics, Chinese Literature, and Physics

ACADEMIC EXPERIENCE

MIT Media Lab | Research Intern Jul. 2018 - Aug. 2018
Computational social science model to study urban planning. Applied multi-agent system to simulate the coupling effect of urban expansion and sea level rise to the mangrove ecosystem in Rio de Janeiro. [pdf]
Opinion Dynamics | Undergraduate Research Project Jan. 2017 - Jun. 2017
Agent-based modelling approach to study opinion formation to explore the danger of populism, alternative poll forecast model. Theoretical model using statistical mechanics and computational simulation in Python. [pdf]
Introduce Gaussian Processes into Bayesian Linear Regression | Group Project Jun. 2016 - Jul. 2016
Investigated and formulated theoretical statistical model, applied computational calculation to weather forecasting.
Maths and Mozart | IB Diploma Research Project Apr. 2013 - Nov. 2013
Function transformation and theme variation; frequency ratio and harmony; golden ratio of section lengths.

INDUSTRY EXPERIENCE

BlackRock Active Equities (London, UK) | Research Analyst Jul. 2017 - Jun. 2018
Data scientist for an algorithmic fund, conducted statistical analysis on data sets to generate mid/long-horizon trading strategies. Previously, 9-month rotation to learn fundamental research with exposure to retail, manufacturing and automobile sectors.
China Bridge Capital (Beijing, China) | Summer Intern Jul. 2016 - Aug. 2016
Boutique investment bank, participated in two cross-border M&A deals.
Shanshui Environmental Conservation Centre (Beijing) | Summer Intern Jul. 2014 - Sept. 2014
Developed honey products to encourage sustainable honey farming within panda habitats, led two honey harvesting trips, organised a marketing gala with 100+ guests.

EXTRA-CURRICULUM ACTIVITIES

Volunteering Experiences
· Nepal: mountain school teacher, sponsored one disadvantaged student Summer, 2015
· France: goat's cheese farm in Bretagne, organic farming, self-sufficient living Winter, 2015
· Taiwan: organic rice farm, gave a talk about the social enterprise industry in China Summer, 2014
Leadership Positions
· Imperial College Hiking Society, social secretary 2016/17
· Imperial College Maths Society, vice president 2015/16
· Animal shelter volunteering club, founder and leader Aug. 2012 - Jun. 2014
Achievements
· BlackRock Hackathon EMEA Category Championship Apr. 2018
· 40-mile orientation challenge, completed in 17 hours Apr. 2016
· Maths championship among international schools in China May 2011
· Youngest participant of the river preservation act, Yangtze River white-water rafting adventure Apr. 2009

SKILLS AND INTERESTS

Languages	Mandarin, English, Italian (improving)
Programming	Python, Matlab, HTML, \LaTeX
Hobbies	Hiking, yoga, tennis, volleyball, philosophy, travel
Qualifications	CFA Level 1 GRE: quantitative 169 (96% percentile), verbal 158 (80%), analytical writing 5.0 (92%)