

# CYNTHIA ZENG

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## EDUCATION

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**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

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**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

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**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

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**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

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