

# 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  
Multi-agent systems computational model for mangrove forests under urban expansion and sea level rise impacts. Project aims to develop urban planning solutions in Rio de Janeiro. Paper under review for IEEE journal. [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, L <sup>A</sup> T <sub>E</sub> X
<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%)