

# CYNTHIA ZENG

<https://cynthiazeng.github.io> · [cynthia.zeng@outlook.com](mailto:cynthia.zeng@outlook.com)

## EDUCATION

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**Imperial College London** | BSc in Mathematics Oct. 2014 - Jun. 2017  
First-class honours · top 20% 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 Jun. 2018 - Aug. 2018  
Computational social science model to study urban planning issues by incorporating both biological and social factors. Applied multi-agent system to simulate the coupling effect of urban expansion and sea level rise to the mangrove ecosystem in Rio de Janeiro.  
**Opinion Dynamics** | Undergraduate Research Project Jan. 2017 - Jun. 2017  
Agent-based modeling approach to study opinion formation in a well-connected social network. Developed mathematical models using statistical mechanics, and computational model in Python. This project intends to explain the paradoxical "Brexit" vote, further applications include election outcome.  
**Maths and Mozart** | IB Diploma Research Project Apr. 2013 - Nov. 2013  
Applied three mathematical methods to study the mastery of Mozart's piano sonatas: function transformation and theme variation, sound wave frequency ratio and harmony, golden ratio and 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 (WWOOFing) 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, $\text{\LaTeX}$
<b>Interests</b>	Hiking, yoga, backpack traveling, tennis, philosophy
<b>Qualifications</b>	CFA Level 1 GRE: quantitative 169, verbal 158, analytical writing 5.0