

# CYNTHIA ZENG

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cynthiazeng.github.io | cz938@nyu.edu

## ACADEMIC POSITION

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<b>NYU Stern School of Business in Abu Dhabi</b> Assistant Professor of Technology, Management and Statistics	Abu Dhabi, UAE 2024 - Present
<b>Massachusetts Institute of Technology</b> Visiting Professor	Cambridge, USA 2024 - Present

## EDUCATION

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<b>Massachusetts Institute of Technology</b> Ph.D. in Operations Research · Advisor: Dimitris Bertsimas. Thesis: <i>Multimodal Machine Learning for Climate Adaptation</i>	Cambridge, USA 2019 - 2024
<b>Imperial College London</b> BSc in Mathematics · 1st-Class Honours, top 15% class rank	London, UK 2014 - 2017

## AWARDS

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· Honorary mention, MIT Envisioning the Future of Computing Prize	2024
· 2nd place, Doing Good with Good OR Award, INFORMS	2023
· Zetta Prize, Best Application of Artificial Intelligence in Industry, MIT MIMO Symposium	2023
· 1st place, William Pierskalla Paper Award, INFORMS Health Applications Society	2020
· 1st place, MIT Cognex Poster Competition	2022

## SELECTED PUBLICATIONS & WORKING PAPERS

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- [1] L. Boussioux\*, **C. Zeng\***, T. Guénais, D. Bertsimas. *Hurricane Forecasting: Novel Multimodal ML Framework*. *Weather and Forecasting*, 37(6): 817–831, 2022.
  - [2] L. Soenksen\*, Y. Ma\*, **C. Zeng\***, et al. *Integrated Multimodal AI Framework for Healthcare*. *NPJ Digital Medicine*, 5(1): 149, 2022.
  - [3] D. Bertsimas, L. Boussioux, R. Cory-Wright, et al., **C. Zeng** (alphabetical). *From Predictions to Prescriptions: A Data-Driven COVID-19 Response*. *Health Care Management Science*, 24: 253–272, 2021.
  - [4] **C. Zeng**, D. Bertsimas. *Global Flood Prediction: A Multimodal ML Approach*. *ICLR ML for Climate Change Workshop*, 2023.
  - [5] **C. Zeng**, D. Bertsimas. *Catastrophe Insurance: A Robust Optimization Approach*. Under review, *Manufacturing & Service Operations Management*.
  - [6] D. Bertsimas, L. Boussioux\*, **C. Zeng\*** (alphabetical). *Reducing Air Pollution Through ML*. Under review, *INFORMS Journal on Applied Analytics*.
  - [7] K. V. Carballo, Y. Ma\*, L. Na\*, L. Boussioux\*, **C. Zeng\***, L. Soenksen, D. Bertsimas. *TabText: Aggregating Knowledge Across Tabular Data*. Under review, *Nature Machine Intelligence*.
  - [8] J. Reid, **C. Zeng**, D. Wood. *Combining Social, Environmental, and Design Models for SDGs*. 2019 IEEE Aerospace Conference, pp. 1–13, 2019.

## INDUSTRY EXPERIENCE

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<b>BlackRock Inc.</b> , Research Associate, Scientific Active Equities	San Francisco, USA, Jun.-Aug. 2022
<b>SoftBank Vision Fund China</b> , Investment Analyst	Shanghai, China, Feb.-Aug. 2019
<b>BlackRock Inc.</b> , Investment Analyst, Active Equities	London, UK, Jul. 2017-Jun. 2018

## SKILLS AND INTERESTS

### Programming Languages

· Python, PyTorch, Julia, TensorFlow, R, Matlab,  $\LaTeX$

### Hobbies

· Hiking, Yoga, Tennis, Skiing, Golf, Classical Music, Volunteering