

BAIZHI SONG

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EDUCATION

London Business School

Ph.D. candidate in Management Science & Operations

Dissertation title: Analytics for a Better Earth

Advisor: Jean Pauphilet

GPA: 4.16/4.3

London, UK

2021 - 2025 (Expected)

Columbia University

M.S. in Financial Engineering

GPA: 4.02/4.3

Financial Engineering Graduate Fellowship

New York, NY

2019 - 2021

Central University of Finance & Economics

B.Ec. in Actuarial Science

GPA: 91/100

Outstanding Graduates Scholarship

Beijing, CN

2015 - 2019

RESEARCH KEYWORDS

Methodology: Analytics; Optimization; Machine Learning.

Applications: Environmental Protection; Climate Resilience; Ocean Plastic Pollution; Wildfire Risk.

PUBLICATIONS AND PREPRINTS

1. “*Optimizing the Path Towards Plastic-Free Oceans*,” (2025), with Dick den Hertog, Jean Pauphilet, Yannick Pham, and Bruno Sainte-Rose. *Operations Research*. [Link]

- **Finalist**, INFORMS MSOM Student Paper Competition, 2025
- **Runner-Up**, MSOM Society Award for Responsible Research in Operations Management, 2025
- **Finalist**, Best OM Paper in Operations Research Award, 2025
- **Third Place**, INFORMS Innovative Applications in Analytics Award, 2025
- **Honorable Mention**, INFORMS Doing Good with Good OR Student Paper Competition, 2024
- **Winner**, POMS College of Sustainable Operations Student Paper Competition, 2024
- **Honorable Mention**, INFORMS Transportation Science and Logistics Best Student Paper Award, 2023

2. “*Operationalizing Experimental Design: Data Collection for Remote Ocean Monitoring*,” with Jean Pauphilet. *Under Review at Manufacturing & Service Operations Management*. [Link]

WORK IN PROGRESS

3. “*Calculating a Diverse Set of Near-Optimal Solutions: Why and How?*,” with Dick den Hertog, Jean Pauphilet, and Justin Starreveld. *In Preparation for Manufacturing & Service Operations Management*
4. “*Moving Fast and Slow: Speed Optimization for Ocean Cleanup Operations*,” with Jean Pauphilet.
5. “*Designing Wildfire-Aware Powerlines as Stochastic Bottleneck Problem*,” with Jean Pauphilet and Guillermo Rein.

TEACHING

London Business School

CL03 Managerial Statistics (Global EMBA core) Summer 2025
- **TA:** Workshop tutoring.

AM04 Data Science for Business (MAM core, 78 students) Fall 2024
- **Head TA:** Organized tutorial sessions; Managed TA team; Designed new course content

AM04 Data Science for Business (MAM core, 80/87 students) Fall 2022, 2023
- **TA:** Workshop tutoring; Grading; Office hour.

TC03 Business Analytics (MBA core, TA, 189/223 students) Summer 2023, 2024
- **TA:** Workshop tutoring; Office hour.

Columbia University

IEOR 4735 Structured and Hybrid Product (Master elective) Fall 2020
- **TA:** Grading; Office hour.

HONORS AND AWARDS

Finalist, MSOM Student Paper Competition 2025
Runner-Up, MSOM Society Award for Responsible Research in Operations Management 2025
Finalist, Best OM Paper in Operations Research Award 2025
Third Place, INFORMS Innovative Applications in Analytics Award 2025
Honorable Mention, INFORMS Doing Good with Good OR Student Paper Competition 2024
Winner, POMS College of Sustainable Operations Student Paper Competition 2024
Honorable Mention, INFORMS Transportation Science and Logistics Best Student Paper Award 2023
Columbia IEOR Financial Engineering Graduate Fellowship 2020
Outstanding Graduates Scholarship, Central University of Finance & Economics 2019
Merit Student Scholarship, Central University of Finance & Economics 2018
Academical Excellent Practice Scholarship, Central University of Finance & Economics 2017
Research and Innovation Excellence Scholarship, Central University of Finance & Economics 2017
Comprehensive Development Scholarship, Central University of Finance & Economics 2016, 2017

OTHER ACADEMIC EXPERIENCE

Analytics for a Better World Remote
Affiliate Researcher 2022 - Present

Amsterdam Business School Amsterdam, NL
Visiting Ph.D. Student Host: Dick den Hertog Jan - Feb 2025

Trans-Atlantic Doctoral Conference (TADC) London, UK
Conference Organizer Details: 3-day event, 11 doctoral speakers May 2023

Columbia University New York, NY
Research Assistant Supervisor: Shipra Agrawal Jul - Dec 2020

INVITED SEMINARS AND CONFERENCES

"Optimizing the Path Towards Plastic-Free Oceans"

- (Upcoming) INFORMS Annual Meeting, Oct 2025, Atlanta GA
 - Time: Oct 26, 2025, **13:15 - 14:30, Session SC45**
 - Location: Building B, Level 3, **B305**, Georgia World Congress Center
- Rochester Institute of Technology, ISE Graduate Seminar, Mar 2025, Virtual
- Amsterdam Business School, Business Analytics Research Seminar, Feb 2025, Amsterdam NL
- INFORMS Annual Meeting, Oct 2024, Seattle WA
- CSAMSE Conference, Jul 2024, Xiamen China
- MSOM Conference, Sustainable Operations SIG, Jun 2024, Minneapolis MN
- European Technology & Operations Management Day, Poster Session, Jun 2024, Cambridge UK
- London Operations Research Day, Poster Session, Apr 2024, London UK
- POMS, College of Sustainable Operations Mini-Conference, Apr 2024, Minneapolis MN
- King's College London, Algorithms and Data Analysis Seminar, Dec 2023, London UK
- INFORMS Annual Meeting, Oct 2023, Phoenix AZ

"Optimal Experimental Design with Routing Constraints"

- (Upcoming) INFORMS Annual Meeting, Oct 2025, Atlanta GA
 - Time: Oct 26, 2025, **15:22 - 15:45, Session SD51**
 - Location: Building B, Level 3, **B311**, Georgia World Congress Center
- INFORMS International Meeting, Jul 2025, Singapore
- MSOM Conference, Jun 2025, London UK
- Workshop on AI for Biodiversity Decisions, Jun 2025, Oxford UK
- London Business School, MSO Seminar, Jun 2025, London UK
- European Technology & Operations Management Day, Jun 2025, London UK
- London Operations Research Day, Poster Session, Apr 2025, Oxford UK
- INFORMS Annual Meeting, Oct 2024, Seattle WA

SKILLS

Programming: Python, Julia, R, Matlab, C++, SQL, STATA, VBA, SLURM.

Language: Chinese (Native), English.

REFERENCES

Jean Pauphilet

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Management Science & Operations
London Business School
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Dick den Hertog

Professor
Operations Research
University of Amsterdam
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S. Alex Yang

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Management Science & Operations
London Business School
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