YUNDUAN LIN

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EMPLOYMENT

The Chinese University of Hong Kong	Hong Kong SAR
Assistant Professor in the Department of Decisions, Operations, and Technology	*2024 - current*

EDUCATION

University of California, Berkeley	Berkeley, CA
Ph.D. in Systems Engineering, Civil and Environmental Engineering	*2019 - current*
Minor in Operations Research and Computer Science	
Advisor: Zuo-Jun Max Shen	
University of California, Berkeley	Berkeley, CA
M.S. in Systems Engineering, Civil and Environmental Engineering	*2018 - 2019*
Tsinghua University	Beijing, China
B.Eng. in Civil Engineering	*2014 - 2018*

RESEARCH INTERESTS

Methodology	Optimization, Data analytics, Machine learning and deep learning, Graph and network theory, Network analytics, Stochastic modeling and simulation.
Applications	Online platforms and marketplaces, Social networks, Revenue management, Healthcare, Supply chain management, Agriculture, Smart city.

PUBLICATIONS & WORKING PAPER

Journal

1. "Nonprogressive Diffusion on Social Networks: Approximation and Applications" [link]
   Major Revision at *Management Science*, 2024.
   Submitted for Second Round Revision.
   Yunduan Lin, Heng Zhang, Renyu Zhang, Zuo-Jun Max Shen.
   - **First-Place Prize**, the 13th POMS-HK International Conference Best Student Paper Award, 2023.
   - **Finalist**, the 18th INFORMS Data Mining and Decision Analytics (DMDA) Workshop Best Paper Competition Award (Theoretical Track), 2023.
   - **Finalist**, INFORMS Minority Issues Forum Poster Competition, 2023.
   - Accepted to INFORMS Workshop on Data Science, 2023.

2. "Content Promotion for Online Content Platforms with the Diffusion Effect" [link]
   Manufacturing & Service Operations Management, 2024.
   Yunduan Lin, Mengxin Wang, Heng Zhang, Renyu Zhang, Zuo-Jun Max Shen.
   - **Winner**, INFORMS Social Media Analytics Best Student Paper Award, 2022.
   - **Second place**, OR/MS Tomorrow Mini-poster Competition, 2022.

3. "Real-time Traffic Accidents Post-impact Prediction: Based on Crowdsourcing Data" [link]
   Accident Analysis & Prevention, 2020.
   Yunduan Lin, Ruimin Li.

Refereed Conference Proceedings

1. "Daily Physical Activity Monitoring—Adaptive Learning from Multi-source Motion Sensor Data" [link]
   Conference on Health, Inference, and Learning (CHIL), 2024.
   Haoting Zhang, Donglin Zhan, **Yunduan Lin**, Jinghai He, Qing Zhu, Zuo-Jun Max Shen, Zeyu Zheng.

2. "Collimatorless Scintigraphy for Imaging Extremely Low Activity Targeted Alpha Therapy (TAT) with Weighted Robust Least Squares (WRLS)" [link]
   Twenty-third International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2020.
   Yifan Zheng, Yoonsuk Huh, Qianqian Su, Jiaming Wang, **Yunduan Lin**, Kai Vetter, Youngho Seo.

Work-in-Progress

1. "Learning User Behavior in a Social Network: Calibration and Generalization"
   In preparation, 2023.
   Yunduan Lin, Haoting Zhang, Zeyu Zheng, Zuo-Jun Max Shen.

TEACHING EXPERIENCES

Instructor

The Chinese University of Hong Kong

DOTE 2011: Statistical Analysis for Business Decisions | *Fall 2024*

University of California, Berkeley

IEOR 253/CEE 258: Supply Chain and Logistics Management 6.80/7.00 | *Spring 2023*

Graduate Student Instructor

University of California, Berkeley

E 120: Principles of Engineering Economics | *Fall 2021*

IEOR 242: Applications in Data Analytics | *Spring 2020 & Fall 2020*

GRANTS

1. CUHK Improvement on Competitiveness in Hiring New Faculties Funding Scheme, PI, with HKD 1,307,270, 2024

INDUSTRY & INTERNSHIP EXPERIENCE

Amazon | *06/2021 - 08/2021*
Research Scientist Intern II @ Middle Mile Product Team, Seattle, WA.
Manager: Ivan Oliveira; Mentor: Golbarg Tutunchi.

Kwai Inc | *06/2019 - 06/2020*
Kwai is a social network for short videos and trends.
Data Scientist Intern @ Data Science and Economist Team, Beijing (Remote after August 2019).

SELECTED HONORS & AWARDS

Outstanding Graduate Student Instructor Award	*04/2024*
Finalist, the 18th INFORMS DMDA Workshop Best Paper Competition Award (Theoretical Track)	*10/2023*
Finalist, INFORMS Minority Issues Forum Poster Competition	*10/2023*
INFORMS Workshop on Data Science 2023 Student Scholarship	*10/2023*
Departmental Award, IEOR Department, UC Berkeley	*04/2023*
First-Place Prize, the 13th POMS-HK International Conference Best Student Paper Award	*01/2023*
Second Place, OR/MS Tomorrow Mini-poster Competition	*12/2022*
Winner, INFORMS Social Media Analytics Best Student Paper Award	*10/2022*
Graduate Division Conference Travel Grant, UC Berkeley	*08/2022*
Tsinghua-Evergrande Group 1st class Scholarship	*10/2017*
Tsinghua-Zhenli Group 2ed class Scholarship	*10/2017*
China National Scholarship (top 1%)	*10/2015*
Outstanding Student Leader, Tsinghua University	*10/2015*
First Prize, China High School Biology Olympiad (Provincial)	*06/2013*
Second Prize, National Olympiad in Informatics in Provinces	*03/2012*

Talks & Presentations

- 2024: CSAMSE, EC, MSOM, CHIL, HK CityU College of Business, HKUST IEDA, CUHK SEEM, HK PolyU Faculty of Business
- 2023: NUS Business School, HKU Business School, CUHK Business School, Stevens Institute of Technology School of Business, INFORMS, INFORMS DMDA Workshop, INFORMS Workshop on Data Science, YinzOR, CSAMSE, POMS-China, MSOM, POMS, POMS-HK
- 2022: INFORMS, POMS-China, MIW
- 2021: CASMSE

Service & Leadership

Ad-Hoc Reviewer

Management Science, Management Science Reproducibility Project, Accident Analysis and Prevention

Professional Service

- Session co-chair, "Social Network and Platform Operations". *INFORMS Annual Meeting*	*10/2023*
- Session chair, "Experiment design". *INFORMS M&SOM Conference*	*06/2023*
- Session co-chair, "Information Design and Platform Operations", *POMS Annual Meeting*	*05/2023*

University and Departmental Service

- Co-founder & Secretary, Representation of Asian and Pacific Islanders, CEE department	*05/2023-05/2024*
- Student Representative (1/2), Graduate Studies Committee, College of Engineering	*10/2022-10/2023*
- Contributor, PhD Mentor/Mentee Relationship Workshop, CEE department	*05/2023*
- Member, PhD Student Meetings with Faculty Search Candidates, IEOR department	*02/2023*
- Mentor, SWENext Mentorship Program (for high school students), UC Berkeley	*02/2023-05/2024*
- Member, Society of Women Engineers (SWE), UC Berkeley	*09/2022-05/2024*

Skills

Python, R, SQL, Java, Matlab, Gurobi, Tensorflow, PyTorch

Last updated in September, 2024