

# Yi-Chun Chen

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## EMPLOYMENT

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<b>University College London (UCL) School of Management</b> Assistant Professor (tenure track) of Operations and Technology	Starting in Aug. 2023
<b>University of California, Los Angeles (UCLA)</b> Postdoctoral Fellow at the Anderson School of Management (mentor: Felipe Caro)	July 2022 - June 2023

## EDUCATION

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<b>UCLA Anderson School of Management</b> Ph.D. in Management (Decisions, Operations and Technology Management) Thesis Committee: Velibor Mišić (advisor), Felipe Caro, Charles Corbett, Kumar Rajaram, Christopher Tang Thesis Title: <i>Prescribing for the Irrational: A Data-Driven Approach to Modeling Irrational Choice</i>	Sep. 2017 – June 2022
<b>Stanford University</b> M.S. in Computational and Mathematical Engineering	Sep. 2014 – May 2017
<b>National Taiwan University</b> B.S. in Physics (Presidential Awards)	Sep. 2009 – June 2013

## RESEARCH

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### Research Interests

Choice modeling, revenue management, large-scale optimization, data-driven analytics, machine learning.

### Publications

- **Assortment Optimization Under The Decision Forest Model** (2021),  
[Yi-Chun Chen](#), Velibor Mišić  
Under review.
- **Column-Randomized Linear Programs: Performance Guarantees and Applications** (2020),  
[Yi-Chun Chen](#), Velibor Mišić  
Major revision in *Operations Research*.
- **Decision Forest: A Nonparametric Approach to Modeling Irrational Choice** (2021),  
[Yi-Chun Chen](#), Velibor Mišić,  
Forthcoming in *Management Science*.
  - Honorable Mention, 2020 INFORMS George E. Nicholson Student Paper Prize.
  - Winner, 2019 INFORMS Decision Analysis Society Student Paper Competition.
  - 2nd Place, 2019 INFORMS Revenue Management and Pricing Section Student Paper Competition.
  - Finalist, 2019 INFORMS Service Science Section Best Paper Competition.
  - **Spotlight Presentation**, 2019 INFORMS Revenue Management and Pricing Conference, Stanford, CA.
- **Improving Offline Value-Function Approximations for POMDPs by Reducing Discount Factors** (2018),  
[Yi-Chun Chen](#), Mykel Kochenderfer, Matthijs Spaan,  
*IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*.
- **Learning Discrete Bayesian Networks from Continuous Data** (2017),  
[Yi-Chun Chen](#), Tim Wheeler, Mykel Kochenderfer,  
*Journal of Artificial Intelligence Research*, 59, 103-132.
- **Deep Reinforcement Learning for Event-Driven Multi-Agent Decision Processes** (2017),  
Kunal Menda, [Yi-Chun Chen](#), Justin Grana, James Bono, Brendan Tracey, Mykel Kochenderfer, David Wolpert,  
*IEEE Transactions on Intelligent Transportation Systems*, 20(4), 1259-1268.

## TEACHING

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### UCLA Anderson School of Management

#### Teaching Assistantship

- MGMT402: **Data and Decisions** Fall 2018, Fall 2020
- MGMT410: **Logistics and Operations Management** Fall 2019
- MGMT240F: **Global Supply Chain Management** Spring 2022
- MSA408: **Operations Analytics** Spring 2020
- MSA434: **Advanced Workshop on Machine Learning** Fall 2020
- MSA435: **Data Visualization** Fall 2020
- MSA407,413: **Data Analytics Industry Seminar** Winter 2022, Spring 2022
- MGMTPHD 242: **Foundations of Stochastic Modeling** Spring 2021

## AWARDS AND HONORS

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- Dreze Dissertation Award**, UCLA Anderson School of Management. 2022
- Dissertation Year Fellowship**, UCLA. 2021
- Honorable Mention, INFORMS **George E. Nicholson Student Paper Prize**. 2020
- Winner, INFORMS **Decision Analysis Student Paper Competition**. 2019
- Second Place, INFORMS **Revenue Management and Pricing Student Paper Competition**. 2019
- Finalist, INFORMS **Service Science Best Paper Competition**. 2019
- Spotlight Presentation**, INFORMS Revenue Management and Pricing Conference. 2019
- Four-year Ph.D. Fellowship**, UCLA Anderson School of Management. 2017
- Presidential Awards**, National Taiwan University. 2012, 2013

## PRESENTATIONS

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### “Assortment Optimization Under the Decision Forest Model”

- INFORMS Revenue Management and Pricing Conference, Online, June 2021.
- MSOM Annual Conference, Online, June 2021.

### “Column-Randomized Linear Programs: Performance Guarantees and Applications”

- INFORMS Optimization Conference, Greenville, SC, March 2022.
- INFORMS Annual Conference, Online, Nov. 2020.

### “Decision Forest: A Nonparametric Approach to Modeling Irrational Choice”

- INFORMS Annual Conference, Anaheim, CA, Nov. 2021.
- INFORMS Annual Conference, Online, Nov. 2020.
- INFORMS Annual Conference, Seattle, WA, Oct. 2019.
- INFORMS Revenue Management and Pricing Conference, Stanford, CA, June 2019.
- SoCal OR/OM Day, Irvine, CA, May 2019.
- POMS Annual Conference, Washington D.C., May 2019.
- INFORMS Annual Conference, Phoenix, AZ, Nov. 2018.

## PROFESSIONAL ACTIVITIES

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Ad-hoc journal referee for *Operations Research*, *Production and Operations Management*, *Computational Management Science*.