Yi-Chun Chen

818-423-9623 | yi-chun.chen.phd@anderson.ucla.edu | http://yi-chun-chen.github.io

Education

UCLA Anderson School of Management — Los Angeles, CA.
Ph.D. in Management (Decisions, Operations and Technology Management) — Sep. 2017 – June 2022 (expected)
Advisor: Professor Velibor Mišić

Stanford University — Stanford, CA.
M.S. in Computational and Mathematical Engineering — Sep. 2014 – May 2017
Advisor: Professor Mykel Kochenderfer

National Taiwan University — Taipei, Taiwan.
B.S. in Physics (Presidential Awards) — Sep. 2009 – June 2013

Publications

Research Interests

Consumer choice modeling, behavioral decision making, revenue management, large-scale optimization, data-driven analytics, machine learning.

Under Review / Published Journal Papers

- **Assortment Optimization Under The Decision Forest Model** (2021),
  Yi-Chun Chen, Velibor Mišić
  Under review in *Operations Research*.

- **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 Student Paper Competition**.
  - 2nd Place, 2019 INFORMS **Revenue Management and Pricing Student Paper Competition**.
  - Finalist, 2019 INFORMS **Service Science Best Paper Competition**.
  - **Spotlight Presentation** (16 out of 80+ submissions), 2019 INFORMS Revenue Management and Pricing Conference, Stanford, CA.

- **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.

Papers in Preparation

- **Assortment-Context Forest and Product Line Optimization** (2021),
  Yi-Chun Chen, Velibor Mišić
  Targeted for *Management Science*.

- **A Recursive Partitioning Approach to Non-Compensatory Choice** (2021),
  Yi-Chun Chen, Velibor Mišić
  Targeted for *Operations Research*.

Peer-reviewed Conference Proceedings

- **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).

Teaching

Master of Business Administration UCLA Anderson School of Management

Teaching Assistantship

- MGMT402: **Data and Decisions**
  - Instructors: Professor Velibor Mišić and Professor Rakesh Sarin (Fall 2018, Fall 2020)
- MGMT410: **Logistics and Operations Management**
  - Instructors: Professor Christopher Tang (Fall 2019)
- MGMT240F: **Global Supply Chain Management**
  - Instructors: Professor Felipe Caro (Spring 2022, scheduled)

Master of Science in Business Analytics UCLA Anderson School of Management

Teaching Assistantship

- MSA408: **Operations Analytics**
  - Instructors: Professor Velibor Mišić (Spring 2020)
- MSA434: **Advanced Workshop on Machine Learning**
  - Instructors: Professor Danylo Vashchilenko (Fall 2020)
- MSA435: **Data Visualization**
  - Instructors: Professor Kristian di Gaetano (Fall 2020)
- MSA407/413: **Data Analytics Industry Seminar**
  - Instructors: Professor Felipe Caro (Winter & Spring 2022, scheduled)

Doctoral Program in Management, UCLA Anderson School of Management

Teaching Assistantship

- MGMTPHD 242: **Foundations of Stochastic Modeling**
  - Instructors: Professor Francisco Castro (Spring 2021)

Awards and Honors

Dissertation Year Fellowship, UCLA. 2021
Honorable Mention, INFORMS **George E. Nicholson Student Paper Prize** (Top 5 out of 119+ submissions). 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 (16 out of 80+ submissions). 2019
Four-year Ph.D. Fellowship, UCLA Anderson School of Management. 2017
Presidential Awards, National Taiwan University. 2012, 2013
Financial Mathematics Summer School Fellowship, Academia Sinica, Taiwan. 2013
Dr. Chao-Ting Chang Memorial Research Scholarship, Academia Sinica, Taiwan. 2012

Presentations

"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 Annual Conference, Online, Nov. 2020.

"Decision Forest: A Nonparametric Approach to Modeling Irrational Choice"

- INFORMS Annual Conference, Anaheim, CA, Nov. 2021 (scheduled).
- 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.

"Improving Offline Value-Function Approximations for POMDPs by Reducing Discount Factors"

- International Conference on Intelligent Robots and Systems (IROS), Madrid, Spain, Oct, 2018.

"Learning Discrete Bayesian Networks from Continuous Data"

- Stanford ICME Xpo Research Symposium, Stanford, California, May, 2017.

Extracurricular Activities

Director, Taiwanese Student Association, Stanford University.	May 2015 – Apr. 2016
Vice President, Student Association, Department of Physics, National Taiwan University.	July 2012 – June 2013
Captain, Basketball Team, Department of Physics, National Taiwan University.	July 2012 – July 2013

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