

Teng HUANG

Assistant Professor
School of Business
Sun Yat-sen University

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PROFESSIONAL POSITION **Sun Yat-sen University** (SYSU), Guangzhou, China
January 2022 - present: Assistant Professor, **School of Business**
November 2020 - January 2022: Assistant Professor, **Lingnan College**

EDUCATION **University of Connecticut** (UConn), Storrs, CT
Ph.D., major area: Analytics and Optimization, August 2020

- Dissertation Title: *On Embedding Advanced Predictive Models into Optimization Models*
- Dissertation Committee: **David Bergman** (chair), **James Marsden**, **Manuel Nunez**, and **Arvind U. Raghunathan**

Sun Yat-sen University (SYSU), Guangzhou, China
Master, Information Science, July 2013
Sun Yat-sen University (SYSU), Guangzhou, China
Bachelor, Information Management and Information Systems, July 2011

- Double Major in Archaeology

REFEREED JOURNAL PUBLICATIONS

1. **Bergman, D.**, **Huang, T.**, Brooks, P., **Lodi, A.**, and **Raghunathan, A. U.** (2021). JANOS: Integrated Predictive and Prescriptive Modeling Framework. *INFORMS Journal on Computing, Published online in Articles in Advance 28 Sep 2021* . <https://doi.org/10.1287/ijoc.2020.1023> [link]
2. **Serra, T.**, **Huang, T.**, **Raghunathan, A. U.**, and **Bergman, D.** (2021). Template-based Minor Embedding in Chimera Graphs for Adiabatic Quantum Optimization. *INFORMS Journal on Computing, Published online in Articles in Advance 21 Sep 2021* . <https://doi.org/10.1287/ijoc.2021.1065> [link]
3. **Huang, T.**, **Bergman, D.**, & **Gopal, R.** (2019). Predictive and Prescriptive Analytics for Location Selection of Add-on Retail Products. *Production and Operations Management*, 28: 1858-1877. DOI:10.1111/poms.13018 [link]

ARTICLES UNDER REVIEW	1. Bergman, D., Huang, T., and Mathieu, J. (2019). Data-Driven Optimization for Team Formation. <i>under review at INFORMS Journal on Optimization, major revision</i>
RESEARCH GRANTS	<p>The Explanability of the Deep Recurrent Neural Network on Inventory Management Processes, <i>supported by The China Postdoctoral Science Foundation (70th)</i> PI 2021.7.1 – 2023.6.30</p> <p>Data-Driven Multi-objective Optimization for Aircraft Line Maintenance Scheduling, <i>supported by The National Natural Science Foundation of China (NSFC)</i> PI 2022.1.1 – 2024.12.31</p> <p>The Identification of Bottleneck Line Maintenance Events and Line Maintenance Scheduling, <i>supported by Cyber Logistic Research Centre, The Chinese University of Hong Kong</i> PI 2021.8.15 – 2021.12.15</p> <p>Research on China’s Science and Technology Innovation Strategy in Adapting to Climate Change, <i>supported by Chinese Ministry of Education</i> (PI: Jieyu Li) Researcher 2021.8 – 2022.12</p> <p>Research on Project Scheduling of Aircraft Maintenance Base, <i>supported by Cyber Logistic Research Centre, The Chinese University of Hong Kong</i> (PI: Gang Chen) Researcher 2021.8 – 2021.12</p> <p>Management Science Group, Lingnan College, <i>supported by The Fundamental Research Funds for the Central Universities, Sun Yat-sen University</i> (PI: Jun Lu) Researcher 2021</p> <p>Public Opinion on COVID-19 related Policies and Their Economic Impact, <i>supported by COVID-19’s Impact and Policy Studies - Central University of Finance and Economics</i> (PI: Xi Wang) Researcher 2020 – 2021</p> <p>Impact Factors of Users Emotion Experiences in Social Commerce, <i>supported by The National Social Science Fund of China</i> (PI: Tinghua Gu) Researcher 2018 – 2021</p>
TEACHING	<p>Instructor – School of Business, Sun Yat-sen University F132 – The Programming and Practice (Python) Spring 2022</p> <p>Instructor – Lingnan College, Sun Yat-sen University LN485 – Research Methods in Management Science (with eight other faculty members) Fall 2021 LN3120 – Introduction to Artificial Intelligence Spring 2021, Spring 2022 LN3121 – Introduction to FinTech (with Dr. Yanchu Liu and Dr. Junqing Kang) Spring 2021, Spring 2022</p>

Instructor – Department of Operations and Information Management, University of Connecticut

OPIM 3103 – Business Information Systems Spring 2020

OPIM 3103 – Business Information Systems Summer 2019

- Overall rating of teaching (median): 5.0/5.0

Teaching Assistant – Department of Operations and Information Management, University of Connecticut

OPIM 3104 – Operations Management (Prof. Miao Bai) Fall 2019

OPIM 3104 – Operations Management (Prof. Moustapha Diaby) Fall 2018

OPIM 3103 – Business Information Systems (Prof. Alex Tung, Prof. Xue Bai, Prof. Shu He) Fall 2015 – Spring 2018

PROFICIENCIES **Programming Languages:** Python, C++, C#, Java
Optimization: Gurobi, or-tools
Statistical Programming: R, STATA, MATLAB
Web Programming: HTML5, CSS, Javascript, jQuery
Database: MySQL, Microsoft SQL Server, Oracle
Shell Scripting

INVITED TALKS **Optimization with Objective Functions Learned Through Machine Learning**

- Department of Management, Lingnan (University) College, Sun Yat-sen University Online, 9:00 - 10:30am, April 30, 2020
- Department of Management Sciences, Faculty of Engineering, University of Waterloo CPH 4335, 2:30 - 3:30pm, February 26, 2020

CONFERENCE PRESENTATIONS **JANOS: Integrated Predictive and Prescriptive Modeling Framework**

- SSOM (online), Guangzhou, China, December 18 - 19, 2021
- POMS Annual Conference 2020 (canceled). Minneapolis, MN, U.S.A. April 23 - 27, 2020
- INFORMS Optimization Society Conference 2020 (canceled). Greenville, SC. March 15 - 17, 2020 (presented by co-author, Dr. David Bergman)
- Winter Conference on Business Analytics (WCBA) 2020 (canceled). Snowbird, UT. March 12 - 14, 2020 (accepted for a poster presentation) [canceled]
- NYC Operations Day 2020 (accepted for a poster presentation) [canceled]
- The 29th Workshop on Information Technologies and Systems (WITS 2019). Munich, Germany. December 18-20, 2019. (Demo/Prototype)
- INFORMS Annual Meeting 2019. Seattle, WA. October 20-23, 2019

Social Media Sentiment and COVID-19 Transmission: Results from a Time-varying SIR Model

- Pacific Asia Conference on Information Systems. July 12 - 14, 2021 - Online (presented by co-author, Yue Xu)

A Preliminary Investigation of COVID-19 Transmission in the United States by Incorporating Social Media Sentiments

- The 2020 ASIS&T Virtual Annual Meeting. October 25 - 29, 2020 (poster presented by co-author, Tianyi Tan)

POMS Doctoral Consortium (canceled) Minneapolis, MN. April 25, 2020

Template-based Minor Embedding in Chimera Graphs for Adiabatic Quantum Optimization

- Mixed Integer Programming Workshop 2020. Rutgers University (withdraw from the online workshop). May 18 - 21, 2020 (accepted for a poster presentation) [withdraw from the online meeting]
- INFORMS Optimization Society Conference 2020 (canceled). Greenville, SC. March 15 - 17, 2020 (presented by co-author, Dr. Thiago Serra)

Discrete Optimization with Objective Functions Learned Through Predictive Modeling

- The 29th Workshop on Information Technologies and Systems (WITS 2019). Munich, Germany. December 18-20, 2019. (Dissertation Proposal)

Data-Driven Optimization for Team Formation

- INFORMS Optimization Society Conference 2020 (canceled). Greenville, SC. March 15 - 17, 2020 (presented by co-author, Dr. David Bergman)
- Winter Conference on Business Analytics (WCBA) 2020. Snowbird, UT. March 12 - 14, 2020 (accepted for a poster presentation) [canceled]
- INFORMS Annual Meeting 2019. Seattle, WA. October 20-23, 2019
- The 3rd INFORMS Workshop on Data Science (DS 2019). Seattle, WA. October 19, 2019 (accepted for a poster presentation)
- INFORMS Computing Society Conference (ICS) 2019. Knoxville, Tennessee. January 2019 (presented under title “*Predicting and Optimizing Team Formation*”)

POMS Doctoral Consortium Washington D.C. May 4, 2019

Predictive and Prescriptive Analytics for Location Selection of Add-on Retail Products

- INFORMS Annual Meeting 2019. Seattle, WA. October 20-23, 2019
- The 14th INFORMS Workshop on Data Mining and Decision Analytics (DMDA 2019). Seattle, WA. October 19, 2019
- POMS Annual Meeting 2019. Washington D.C. May 2019
- Winter Conference on Business Analytics (WCBA) 2019. Snowbird, UT. March 2019 (accepted in a regular session)
- INFORMS Annual Meeting 2018. Phoenix, AZ. November 2018

AWARDS AND SCHOLARSHIPS

Student Awards — University of Connecticut

- Teaching Assistant Award (Department of Operations and Information Management) Spring 2020
- The Graduate Student Intern of the Year 2019 (third place) Spring 2020
- Doctoral Dissertation Fellowship (The Graduate School) Spring 2020
- Peter Shanley Endowment (School of Business) Fall 2018 – Spring 2019

Student Awards — Sun Yat-sen University

- Scholarship for Graduate students Fall 2012 – Spring 2013

- Scholarship of 3M for students in Library Science December 2012
- The 3rd prize, Distinguished Student Scholarship Fall 2008 – Spring 2009
- The 3rd prize, Distinguished Student Scholarship Fall 2007 – Spring 2008

National Olympiad in Informatics (NOI), China

- The 3rd prize (national) & the 2nd prize (regional) 2005 & 2006

PROFESSIONAL
SERVICE

Reviewer *Journals/Conferences Reviewed for (#articles reviewed)*

- Electronic Commerce Research (ECR) 2021 (1)
- **Decision Support Systems (DSS)** 2019 (8) 2020 (7) 2021 (6)
- **2021 International Conference on Information Systems (ICIS 2021)** (1)
- Engineering and Applied Science Research (EASR) 2021 (1)
- INFOR: Information Systems and Operational Research (INFOR) 2021 (1)
- Expert Systems With Applications (ESWA) 2020 (1)
- **2020 International Conference on Information Systems (ICIS 2020)** (2)
- **The 24th Pacific Asia Conference on Information Systems (PACIS 2020)** (2)
- International Journal of Forecasting (INTFOR) 2020 (1)
- **The 14th Learning and Intelligent Optimization Conference (LION14)** (1)
- **The 15th Winter Conference on Business Analytics (WCBA 2020)** (1)
- Journal of Optimization Theory and Applications (JOTA) 2019 (1)
- **The 29th Workshop on Information Technologies and Systems (WITS 2019)** (1)
- **2019 Conference on Information Systems and Technology (CIST 2019)** (1)
- **2019 International Conference on Information Systems (ICIS 2019)** (3)
- **The 2019 INFORMS Workshop on Data Science (DS2019)** (1)
- **The 16th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR 2019)** (1)
- **The 15th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR 2018)** (1)
- **The 31st AAAI Conference on Artificial Intelligence (AAAI-17)** (1)

Website Chair

- **The 25th International Conference on Principles and Practice of Constraint Programming (CP 2019)** (Co-chair: **Mohsen Emadikhav**)

Session Chair

- **POMS 30th Annual Meeting (POMS 2019)** (Co-chair: **David Bergman**)

WORK
EXPERIENCE

Mitsubishi Electric Research Laboratories (MERL), Cambridge, MA

Intern January 2019 - April 2019

IT Department, Giordano International Limited, Guangzhou, China

Data Analyst & Programmer May 2013 - November 2014

Yunnex.com, Guangzhou, China

Assistant of Media Manager September 2014 - November 2014

Valleytalk.org, CA, USA

Blogger June 2014 - August 2014

Siemens Transformer (Guangzhou) Co., Ltd. (STGZ), Guangzhou, China

Intern November 2012 - January 2013

MENTORSHIP Undergraduate Students

- Fan Chen, Management Science, Lingnan College, Sun Yat-sen University, 2022
- Changhui Zhong, Management Science, Lingnan College, Sun Yat-sen University, 2022

Master Student

- Qingping Chen, Library & Information Science, Sun Yat-sen University, 2020

SOCIAL SERVICE Crew Member

Route Marking: Advanced (Team B);

2019 Out of the Darkness – Overnight Walk by the American Foundation of Suicide Prevention, Boston, MA, United States June 22, 2019

Volunteer

2020 Out of the Darkness – Overnight Walk by the American Foundation of Suicide Prevention, New York City, United States [[donate](#)] June 20, 2020

UConn New Graduate Students Orientation – Tour Guide August 20, 2019

INFORMS Pro Bono Analytics (PBA) May 2019 – present

UConn New International Graduate Students Orientation – Tour Guide August 2016

UConn Clean Sweep sponsored by Residential Life (Shift assignment at Northwood Apartments) November 15, 2015

Tutor elementary and middle school students whose parents are migrants in Guangzhou, China April 2013 – January 2014

Take and print family photos of residents in a rural village in Yunnan, China January 2014

Reference Services in Guangzhou City Library, Guangzhou, China January 2013 – February 2013

Assistant

Administration Office of School of Information Management, Sun Yat-sen University, Guangzhou, China February 2011 & February 2012