Yue Hu

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	McGiffert House, 238-05	Webpage:
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ACADEMIC APPOINTMENTS

University of Chicago Booth School of Business — Chicago, IL
- Postdoctoral Principal Researcher — 2022–2023

Stanford Graduate School of Business — Stanford, CA
- Incoming Assistant Professor of Operations, Information & Technology — 2023–

EDUCATION

Columbia University — New York, NY
- Ph.D. in Business: Decision/Risk/Operations — 2017–2022
- Advisors: Carri W. Chan, Jing Dong, and Ohad Perry

Northwestern University — Evanston, IL
- B.S. in Industrial Engineering and Mathematics — 2013–2017

RESEARCH INTERESTS

Healthcare operations management, applied probability, optimal control theory

WORKING PAPERS

1. Y. Hu, K. D. Cato, C. W. Chan, J. Dong, N. Gavin, S. C. Rossetti, B. P. Chang. **Use of Real-Time Information to Predict Future Arrivals in the Emergency Department**. Submitted.

2. Y. Hu, C. W. Chan, J. Dong. **Prediction-Driven Surge Planning with Application in the Emergency Department**. Submitted. [Link]

3. Y. Hu, J. Dong, O. Perry. **Asymptotic Optimality of Base-Stock Policies with Idle Times for Stochastic Economic Lot Scheduling Problems**. Submitted. [Link]

4. Y. Hu, J. Dong, O. Perry. **Existence and Approximations of Moments for Polling Systems under the Binomial-Exhaustive Policy**. Submitted. [Link]

PUBLISHED PAPERS

5. Y. Hu, J. Dong, O. Perry. **Asymptotic Optimality of the Binomial-Exhaustive Policy for Polling Systems with Large Switchover Times**. *Annals of Applied Probability*, forthcoming. [Link]
    - Winner, 2020 INFORMS APS Best Student Paper Award

6. Y. Hu, C. W. Chan, J. Dong. **Optimal Scheduling of Proactive Service with Customer Deterioration and Improvement**. *Management Science*, forthcoming. [Link]
    - Finalist, 2019 INFORMS IBM Best Student Paper Award

7. Y. Hu, J. Dong, O. Perry, R. M. Cyrus, S. Gravenor, M. J. Schmidt. **Use of a Novel Patient-Flow Model to Optimize Hospital Bed Capacity for Medical Patients**. *The Joint Commission Journal on Quality and Patient Safety*, 47(6), 2021. pp. 354-363. [Link]

8. H. B. Gershengorn, Y. Hu, J-T. Chen, S. J. Hsieh, J. Dong, M. N. Gong, C. W. Chan. **The Impact of High-Flow Nasal Cannula Use on Patient Mortality**

and the Availability of Mechanical Ventilators in COVID-19. *Annals of the American Thoracic Society*, 18(4), 2021. pp. 623-631. [Link]

9. H. Yang, Y. Hu, D. P. Morton. **Analyzing Client Behavior in a Syringe Exchange Program**. *IIE Transactions on Healthcare Systems Engineering*, 10(2), 2020. pp. 142–157. [Link]

HONORS AND
AWARDS
- Deming Doctoral Research Fellowship, Columbia Business School   2020
- Winner, INFORMS APS Best Student Paper Award   2020
- Finalist, INFORMS IBM Best Student Paper Award   2019
- Asenath Marie and Duncan Merriwether Fellowship, Columbia Business School
                                                                    2019–2020
- Doctoral Fellowship, Columbia Business School   2017–2022
- Honorable Mention, INFORMS Undergraduate Operations Research Prize   2017
- Industrial Engineering and Management Sciences Academic Excellence Award, Northwestern University   2017
- Arthur P. Hurter Award for Outstanding Industrial Engineering and Management Sciences Graduating Senior, Northwestern University   2017
- Charles Thompson Senior Design Award, Northwestern University   2017
- Runner-Up, Harold B. Gotaas Research Award, Northwestern University   2017
- Department Outstanding Grader, Northwestern University   2017
- Undergraduate Summer Research Grant, Northwestern University   2016

PROFESSIONAL
SERVICES
- Reviewer for *Mathematics of Operations Research*
- Reviewer for *Operations Research*
- Reviewer for *Operations Research Letters*
- Reviewer for *Production and Operations Management*

TEACHING
EXPERIENCE

Teaching Assistant
- MBA Elective: The U.S. Healthcare System: Structure and Strategies   2021 Fall
- PhD Core: Stochastic Modeling II   2022 Spring, 2021 Spring
- MBA Core: Operations Management   2021 Summer, 2021 Spring, 2019 Spring
- MBA Core: Managerial Statistics   2020 Fall, 2019 Fall, 2018 Spring, 2018 Fall
- EMBA Core: Operations Management   2020 Spring, 2019 Fall
- MBA Exemption Exams: Operations Management   2019–2021
- EMBA Exemption Exams: Managerial Statistics   2019–2021

Grader
- IEMS 315 Stochastic Modeling and Simulation   2017 Winter, 2016 Fall
- IEMS 317 Discrete Event Simulation   2016 Spring
- IEMS 202 Probability   2016 Winter
- IEMS 201 Introduction to Statistics   2015 Fall

CONFERENCE
PRESENTATIONS
"Prediction-Driven Surge Planning with Application in the Emergency Department"
- INFORMS Annual Meeting, Anaheim, CA   Oct. 2021
- Cornell ORIE Young Researcher Workshop, Ithaca, NY   Oct. 2021
- INFORMS Healthcare Conference, Online   July 2021
- MSOM Annual Conference, Online   June 2021

- INFORMS Annual Meeting, Online   Nov. 2020

"Optimal Scheduling of Proactive Service with Customer Deterioration and Improvement"
- INFORMS Annual Meeting, Anaheim, CA   Oct. 2021
- MSOM Annual Conference, Online   June 2021
- POMS Annual Conference, Online   May 2021
- INFORMS Annual Meeting, Seattle, WA   Oct. 2019
- INFORMS Healthcare Conference, MIT, Cambridge, MA   July 2019
- MSOM Annual Conference, NUS, Singapore   July 2019
- POMS Annual Conference, Washington, DC   May 2019
- INFORMS Annual Meeting, Phoenix, AZ   Nov. 2018

"Asymptotic Optimality of the Binomial-Exhaustive Policy for Polling Systems with Large Switchover Times"
- INFORMS Annual Meeting, Online   Nov. 2020
- INFORMS Annual Meeting, Phoenix, AZ   Nov. 2018
- INFORMS Annual Meeting, Undergraduate Operations Research Prize, Houston, TX   Oct. 2017
- Harold B. Gotaas Research Award, Northwestern University, Evanston, IL
                                                                                                              May 2017
- Undergraduate Research Expo, Northwestern University, Evanston, IL
                                                                                                              May 2017

"Asymptotic Optimality of Base-Stock Policies for Stochastic Economic Lot Scheduling Problems"
- INFORMS Annual Meeting, Online   Nov. 2020

SKILLS   **Programming Languages**: Python, R/SAS, Matlab, C/C++, VBA, SQL, HTML, Mathematica, LaTeX
Software and tools: AMPL, Simio, @Risk, ArcGIS
Languages: Chinese (mothertongue), English (fluent)

REFERENCES

Professor Carri W. Chan
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Graduate School of Business
Columbia University
New York, NY, USA
E-mail: cwchan@gsb.columbia.edu

Professor Jing Dong
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Professor Ohad Perry
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