

# Amir Anastasios Alwan

## Curriculum Vitae

Address: Harper Center Office 321-27, 5807 S. Woodlawn Ave., Chicago, IL 60637

Email: [amir.alwan@chicagobooth.edu](mailto:amir.alwan@chicagobooth.edu) • Website: [amiralwan.com](http://amiralwan.com) • LinkedIn: [amir-anastasios-alwan](https://www.linkedin.com/in/amir-anastasios-alwan)

### EDUCATION

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**The University of Chicago Booth School of Business**, Chicago, Illinois, USA May 2024  
Doctor of Philosophy (Ph.D.), Management Science & Operations Management (Expected)  
Thesis: “Stochastic Modeling and Control in Ridesharing and Online Systems”

**The University of Chicago Booth School of Business**, Chicago, Illinois, USA 2023  
Master of Business Administration (MBA)

**University of Wisconsin–Madison**, Madison, Wisconsin, USA 2017  
Bachelor of Science (B.S.), Mathematics

**University of Wisconsin–Madison**, Madison, Wisconsin, USA 2017  
Bachelor of Science (B.S.), Statistics

### RESEARCH INTERESTS

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**Methodology:** Applied probability, stochastic modeling and control, queueing theory, Bayesian learning, infinite-dimensional optimization

**Applications:** Operations management, revenue management, inventory management, online content moderation, healthcare operations

### JOURNAL PUBLICATIONS

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1. Alwan, A. A., Ata, B., & Zhou, Y. (2023). A Queueing Model of Dynamic Pricing and Dispatch Control for Ride-Hailing Systems Incorporating Travel Times. Accepted at *Queueing Systems: Theory and Applications*. DOI: [10.48550/arXiv.2302.02265](https://doi.org/10.48550/arXiv.2302.02265)
2. Alwan, A. A., Han, Z., Tao, Z., Lin, J., & Zlatoš, A. (2019). Multidimensional Transition Fronts for Fisher-KPP Reactions. *Nonlinearity*, 32(3), 927–941. DOI: [10.1088/1361-6544/aaf081](https://doi.org/10.1088/1361-6544/aaf081)
3. Rodgers, M. L., Tretbar, U. S., Dehaven, A. C., Alwan, A. A., Lou, G., Mast, H. M., & Hoskins, A. A. (2016). Conformational Dynamics of Stem II of the U2 snRNA. *RNA*, 22(2), 225–236. DOI: [10.1261/rna.052233.115](https://doi.org/10.1261/rna.052233.115)

### SUBMITTED PAPERS

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4. Shi, Y., Alwan, A. A., & Yue, X. (2023). Information Sharing via Digital Freight Brokerage Platforms: Improving Operational Responsiveness to Carrier Freight Rejection. Major revision at *Production and Operations Management*. DOI: [10.2139/ssrn.4532984](https://doi.org/10.2139/ssrn.4532984)
5. Alwan, A. A., & Ata, B. (2020). Diffusion Approximations for Ridesharing Systems with Travel Times. Revise and resubmit at *Queueing Systems: Theory and Applications*. DOI: [10.2139/ssrn.3525280](https://doi.org/10.2139/ssrn.3525280)

## **WORKING PAPERS**

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6. Alwan, A. A., Caldentey, R. A., Shi, T., & Ward, A. R. (2023). Diffusion Approximations for Online Content Moderation Systems. Draft in preparation.
7. Alwan, A. A., Caldentey, R. A., Shi, T., & Ward, A. R. (2023). An Operational Perspective to Online Content Moderation. Draft in preparation.
8. Perera, S., Alwan, A. A., Gupta, V., & Long, H. (2023). Data-Driven Condition-Based Maintenance for Smart Systems. Draft in preparation.

## **CONFERENCE PRESENTATIONS**

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- Diffusion Approximations for Online Content Moderation Systems, 2023 INFORMS Annual Meeting, Phoenix, AZ
- Dynamic Pricing and Dispatch Control for Ride-Hailing Systems, 2021 INFORMS Annual Meeting, Anaheim, CA
- Heavy Traffic Limit For Ridesharing Systems, Virtual 2020 INFORMS Annual Meeting
- Heavy Traffic Limit For Ridesharing Systems, 2019 INFORMS Annual Meeting, Seattle, WA

## **TEACHING EXPERIENCE**

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### **The University of Chicago Booth School of Business (Teaching Assistant):**

- BUSN 40101: Supply Chain Strategy and Practice (Full-Time MBA) – Winter 2024
- BUSN 36905: Approximate Dynamic Programming (Ph.D. Program) – Spring 2022
- BUSN 40110: Managing Service Operations (Full-Time/Evening MBA) – Winter 2020, Winter 2021

### **University of Wisconsin–Madison, Department of Mathematics (Teaching Assistant):**

- MATH 629: Introduction to Measure and Integration (Advanced Undergrad/Graduate) – Spring 2016

## **AWARDS & HONORS**

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- Doctoral Fellowship, The University of Chicago Booth School of Business 2017 – 2023
- Oscar Mayer Fellowship, The University of Chicago Booth School of Business 2018
- Phi Beta Kappa Society (PBK) 2017
- Violet Higgitt Frank Scholarship, Mathematics Department at University of Wisconsin–Madison 2015
- Math REU Research Grant, Mathematics Department at University of Wisconsin–Madison 2015
- Distinguished Scholar Award, Big Ten Conference 2013
- 4.0 Recognition Award, Athletic Department at University of Wisconsin–Madison 2013
- Wisconsin Academic Excellence Scholarship (AES) 2012 – 2016

## **SKILLS**

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**Programming:** Java, Python, C++, R

**Markup:** HTML, Markdown, T<sub>E</sub>X/L<sup>A</sup>T<sub>E</sub>X

**Languages:** English (native), Greek (beginner), Spanish (intermediate)

## **MISCELLANEOUS**

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**Citizenship:** United States of America, Greece (pending)

**Athletic:**

- Wisconsin Badgers Men's NCAA Division I Cross Country Team Member 2012, 2013
- Wisconsin Badgers Men's NCAA Division I Track & Field Team Member 2013, 2014
- WIAA High School Track & Field State Champion, 4 x 800 Meter Relay 2012
- Brookfield Central High School, Varsity Track & Field Team Member 2012
- Brookfield Central High School, Varsity Soccer Team Member and Co-Captain 2008 – 2011

**Hobbies and Interests:** Bowhunting, spearfishing, Greek language and culture, Wisconsin sports fan (Green Bay Packers and Milwaukee Bucks), functional strength training, weightlifting, soccer and futsal