

Alexandria Schmid

Massachusetts Institute of Technology
Operations Research Center
77 Massachusetts Ave, Bldg E40-103
Cambridge, MA 02139

Email: aschmid@mit.edu
Website: <https://alexschmid3.github.io>
Phone : +1-336-212-1206
Citizenship: USA

EDUCATION

Massachusetts Institute of Technology
PhD in Operations Research, GPA: 5.0/5.0
Advisor: Alexandre Jacquillat

Cambridge, MA
Aug. 2020 – May 2025 (exp.)

Georgia Institute of Technology
B.S. Industrial & Systems Engineering, GPA: 3.9/4.0

Atlanta, GA
Aug. 2012 – May 2016

EXPERIENCE

- **Massachusetts Institute of Technology**

Cambridge, MA

Graduate Research Assistant

Sept. 2020 – Present

- Conducting research in optimization, machine learning, and routing

- **The Home Depot**

Atlanta, GA

Senior Analyst – Supply Chain Analytics

May 2016 – Aug. 2020

- Built logic and strategy for a new in-house replenishment system to unify and replace existing supply chain management systems
- Designed new order aggregation logic to reduce inventory by \$70 million, primarily targeting slow-moving inventory
- Completed a comprehensive analysis of replenishment system usage and identified multiple company-wide inventory process issues that have since been addressed

- **Georgia Institute of Technology**

Atlanta, GA

Undergraduate Research Assistant

Aug. 2015 - May 2016

- Created an integer optimization model to automate class scheduling and instructor assignment for the School of Industrial and Systems Engineering

PUBLICATIONS

In Preparation

- Vehicle routing optimization with relay: an arc-based column generation approach (with Alexandre Jacquillat and Kai Wang)
- Task assignment and route planning in robotic warehousing: a learning-enhanced large-scale neighborhood search approach (with Cynthia Barnhart, Alexandre Jacquillat, and Riley Lenaway)

PRESENTATIONS

- Vehicle routing optimization with relay
 - 2021 INFORMS Annual Meeting
 - 2021 INFORMS Transportation and Logistics Workshop

TEACHING EXPERIENCE

- **Integer Programming and Combinatorial Optimization (15.083)** Feb. 2022 - May 2022
Teaching Assistant
 - Prepare and teach weekly recitation sessions, hold office hours, and supervise final projects
- **Computing for Optimization and Statistics (15.S60)** Jan. 2022
Session Instructor
 - Designed and taught a workshop to Sloan graduate students on computing literacy in operations research, covering Git, Github, distributing computing, and LaTeX
- **Georgia Tech Center for Academic Success** Aug. 2015 - May 2016
1-on-1 tutor
 - Tutored undergraduate students in calculus, statistics, computer science, and physics courses

AWARDS AND FELLOWSHIPS

- **Social and Ethical Responsibilities of Computing Scholar** 2022
- **First Place in Georgia Tech Industrial Engineering Senior Design Competition** 2016
- **President's Undergraduate Research Award** 2015
- **Stamps President's Scholarship** 2012

PROGRAMMING SKILLS

Languages: Julia, Python, SQL, R