

Material Planner Intern

Tesla, Inc.

📅 Jun 2018 - Sep 2018

📍 Reno, NV

- Reduced number of missing parts in warehouse by 10% through statistical data analysis and machine learning model to identify causes of missing parts and predict inventory shortage.
- Streamlined cross-functional processes for improved material and information flow between three business units.

Supply Chain Improvement Manager

Airbus Operations GmbH

📅 Oct 2016 - Sep 2017

📍 Hamburg, Germany

- Reduced inventory capital tie-up by \$100M through data-driven target-setting process for optimized inventory levels.
- Collaborated with Business Transformation Director on 5 year road map for improved supply chain, and managed the resulting project portfolio.

Co-op Rotational Internship Program

Airbus Operations GmbH

📅 Aug 2013 - Oct 2016

📍 Hamburg, Germany

- Completed project-based engineering internships in engineering, production, supply chain, and quality departments.

PUBLICATIONS

📄 Journal Articles

- Dalla Chiara, G., Krutein, K., Ranjbari, A., & Goodchild, A. (2022). Providing curb availability information to delivery drivers reduces cruising for parking. *Under Review at: Nature Scientific Reports*.
- Krutein, K., Dalla Chiara, G., Dimitrov, T., & Goodchild, A. (2022). Improving commercial vehicle routing through the consideration of cruising for parking. *Available at SSRN*. retrieved from <https://ssrn.com/abstract=4183322>
- Krutein, K., & Goodchild, A. (2022). The isolated community evacuation problem with mixed integer programming. *Transportation Research Part E: Logistics & Transportation Review*, 161(102710). doi:<https://doi.org/10.1016/j.tre.2022.102710>
- Krutein, K., Goodchild, A., & Boyle, L. (2022b). Robust and rolling horizon optimization approaches for handling uncertainty in the isolated community evacuation problem during emergency response. *Under Review at: Transportation Science*.
- Krutein, K., McGowan, J., & Goodchild, A. (2022). Evacuating isolated islands with marine resources: A bowen island case study. *International Journal of Disaster Risk Reduction*, 72(102865). doi:<https://doi.org/10.1016/j.ijdrr.2022.102865>
- Dalla Chiara, G., Krutein, K., Ranjbari, A., & Goodchild, A. (2021). Commercial vehicle driver behaviors and decision making: Lessons learned from urban ridealongs. *Transportation Research Record: Journal of the Transportation Research Board*, 2675, 608–619. doi:<https://doi.org/10.1177/03611981211003575>

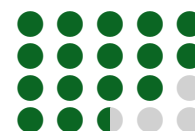
👥 Conference Proceedings

Organization
Initiative
Decision Making
Innovation



LANGUAGES

English
German
French
Spanish



EDUCATION

Ph.D. in Industrial Engineering

University of Washington

📅 2019 – 2022

📍 Seattle, WA

Dissertation: Optimization Modeling Approaches to Evacuations of Isolated Communities

M.S. in Industrial Engineering

University of Washington

📅 2017 – 2019

📍 Seattle, WA

B.Sc. in Industrial Engineering & Business Management

FH Nordakademie (University of Applied Sciences Nordakademie)

📅 2013 – 2017

📍 Elmshorn, Germany

Thesis: Framework for a Stock Opt. Strategy

Certificate of Proficiency in Industrial Engineering

University of Auckland

📅 2015 – 2016

📍 Auckland, New Zealand

AWARDS

Fellowship for High Potentials

Foundation of German Business (SDW)

📅 2013 – 2019

Fellowship for Graduate Studies Abroad

German Academic Exchange Service (DAAD)

📅 2017 – 2019

Fellowship for International Exchange

Institute Ranke Heinemann

📅 2015

- Krutein, K., Goodchild, A., & Boyle, L. (2022a). A meta-heuristic solution approach to isolated evacuation problems, Proceedings of the 2022 Winter Simulation Conference.
- Krutein, K., & Boyle, L. (2019). Systematic approach for the design of flight simulator studies. (Vol. 63, pp. 833–837). doi:<https://doi.org/10.1177/1071181319631524>