Anton Michael Reiling

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National University of Singapore (NUS)

NUS Business School | 15 Kent Ridge Dr, Singapore 119245

EDUCATION

08/2024-present	**National University of Singapore (NUS), Singapore** PhD Student in Analytics and Operations at NUS Business School
08/2023-12/2023	**National University of Singapore (NUS), Singapore** Exchange semester in Industrial Systems Engineering and Management • Courses taken: Operations Research II, Modeling and Analytics, Supply Chain Modeling, Computer Intensive Statistical Methods, Revenue Management and Pricing Analytics
09/2022-06/2024	**Technical University of Denmark (DTU), Denmark** M. Sc. in Industrial Engineering and Management • Specialization: Operations Research and Supply Chain Optimization • Scholar of DTU's Honors Program • Danish GPA: 11.5 (Best of the year)
10/2018-03/2022	**Technical University Rosenheim, Germany** B. Eng. in Management and Engineering • Specialization: Industrial Technology • Graduation with high distinction • German GPA: 1.2 (Top 3 % of the year)

RESEARCH EXPERIENCE

12/2023-04/2024	**Master's thesis | Novo Nordisk, Denmark** Subject: Deterministic versus Robust Optimization in Production Scheduling • Development of mathematical models to allocate production orders to machines on different stages of a supply chain for a pharmaceutical company • Integration of demand and production time uncertainty by implementing robust optimization models which are flexible in their degree of conservatism • Development of a Discrete-Event Simulation serving as a Digital Twin to simulate the execution of production orders • Validation of models by integrating optimization into simulation to allow for re-scheduling, and model assessment through Monte Carlo simulations
02/2023-05/2023	**Research project | Technical University of Denmark (DTU), Denmark** Subject: Data-Driven Decision-Making under Uncertainty • Evaluation of different decision-making criteria such as Minimax, Maximax, Hurwicz, and Laplace Criterion • Comparison of decision-making criteria with respect to their application in Project, Program, and Portfolio Management
09/2021-01/2022	**Bachelor's thesis | KRONES, Germany** Subject: Assessment of Advanced Planning and Scheduling Systems • Design of efficient prioritization policies for production orders • Holistic analysis of production planning processes of two factories • Multi-Criteria Decision-Analysis and subsequent statistical verification of different Advanced Planning and Scheduling Systems

09/2021-	**Research project	Technical University Rosenheim, Germany**
12/2021	Subject: Risk Profiling in Financial Decision-Making

- Assessment of different models to classify risk aversion
- Analysis of psychological phenomena affecting decision-making such as framing, herd mentality, and overconfidence bias

10/2019-	**Student assistantship	Technical University Rosenheim, Germany**
03/2020	Teaching assistant and research assistant in the field of CAD

- Tutorial lectures for revision and examination preparation
- Creation of educational CAD videos for component design and assembly of different machine elements

PROFESSIONAL EXPERIENCE

03/2022-	**AUDI, Germany**
07/2022	Internship – Production planning for high-voltage battery assembly

- Performance of Value Stream Analysis to determine buffer times and detect potential waste according to Lean Management principles
- Development of a mechanical device to facilitate manual assembly steps
- Analysis of cycle times to examine the production lines' maturity levels

07/2020-	**BSH Hausgeräte, Germany**
07/2021	Internship and student assistantship – Industrial Engineering Inhouse Consulting

- Focus: Analysis of the breakdown risk of production equipment
- Main areas: Risk management, implementation of production systems, production optimization, assembly automation, packaging design for shipping, production related competitors' analyses

ACHIEVEMENTS & AWARDS

09/2022-	**Honors Program	Technical University of Denmark (DTU), Denmark**
06/2024	Awarded for outstanding academic performance

- Additional track to M. Sc. program with particularly challenging curriculum

01/2020-	**Scholarship	Bischöfliche Studienförderung Cusanuswerk, Germany**
06/2024	Awarded for outstanding academic performance and social commitment

- Extracurricular programs throughout bachelor's and master's studies

SKILLS

Languages	German (C2), English (C2), Danish (B2), Spanish (B1), Mandarin Chinese (A1)
Technology	Python, Java, Julia, C, Matlab, R, AnyLogic, MS Power Apps, LaTeX