

Daniel Kwasnitschka

Contact ETH Zurich
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Chair of Production and Operations Management

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Academic Experience

07/2020 – today **Swiss Federal Institute of Technology Zurich (ETH Zurich)**
Zurich, CH Doctoral Student (Dr. Sc.) supervised by Prof. Netland
Dissertation on Behavioral Effects of New Digital Technologies in Operations
Expected Graduation: March 2024

09/2018 – 06/2020 **Karlsruhe Institute of Technology (KIT)**
Karlsruhe, GER Research Assistant at the Chair of Financial Economics and Risk Management
Creation of Digital Teaching Materials and Service Activities

Practical Experience

08/2019 – 03/2020 **German Start-Up Accelerator from the German Federal Ministry for Economic Affairs**
Munich, GER Working Student in Data Analytics

03/2019 – 08/2019 **Mercedes-Benz USA LLC**
Jacksonville, FL Intern in Business Intelligence and IT Infrastructure

10/2018 – 03/2019 **MHP – A Porsche Company**
Munich, GER Working Student in Management Consulting

01/2018 – 10/2018 **BMW Group**
Munich, GER Working Student in Digitalization of the R&D Department

05/2017 – 11/2017 **Mercedes-Benz USA LLC**
Jacksonville, FL Intern in Shop Floor Management Digitalization

11/2016 – 05/2017 **Audi AG**
Ingolstadt, GER Intern in Sales and Distribution for the North American Market

Education

07/2017 – 05/2020 **Karlsruhe Institute of Technology (KIT)**
Karlsruhe, GER M.Sc. Industrial Engineering; Thesis at the Department of Economics and Management

07/2018 – 10/2018 **Shanghai Jiao Tong University**
Shanghai, CN Study abroad – Joint Entrepreneurship Summer School

10/2013 – 06/2017 **Karlsruhe Institute of Technology (KIT)**
Karlsruhe, GER B.Sc. Industrial Engineering; Thesis at the Department of Economics and Management

Awards

2023 Decision Sciences Institute 2023 Instructional Innovation Award Competition Nominee
2023 European Operations Management Association 2023 Nigel Slack Teaching Innovation Award Winner
2022 POMS College of Operational Excellence Best Paper Award Nominee
2022 Academy of Management OSCM Chan Hahn Best Paper Award Nominee

2022	European Operations Management Association Harry Boer Best Student Paper Award Nominee
2021	European Operations Management Association 2021 Nigel Slack Teaching Innovation Award Winner

Memberships

Since 2023	Decision Sciences Institute
Since 2021	Production and Operations Management Society (POMS)
Since 2021	Academy of Management (OSCM Division)
Since 2021	European Operations Management Association (EurOMA)

Engagement at Host Institutions

2021-today	Board member of ETH Zurich's Strategy Commission
2020-2022	Co-President of the Scientific Staff Association at D-MTEC, ETH Zurich
2020-2022	Member of the Diversity Team at the Scientific Staff Association of ETH Zurich
2020-2022	Event Manager of the ETH D-MTEC Scientific Staff Board
2020-2022	Member of ETH D-MTEC Department Conference
2020-2022	Member of ETH D-MTEC Teaching Conference
2020-2022	Board Member of the Scientific Staff Association of ETH Zurich

Teaching

Fall 2023	Single Lecture " <i>Introduction to Operations Management</i> " (B.Sc., ETH Zurich)
Fall 2023	Guest Lecture " <i>Industry 4.0 and Process Improvement</i> " (University of Cologne)
Fall 2023	Single Lecture " <i>Deep-dive Planning and Control with New Technology</i> " (M.Sc., ETH Zurich)
Fall 2021	Teaching Assistant for Lecture " <i>Production and Operations Management</i> " (M.Sc., ETH Zurich)
Fall 2020	Teaching Assistant for Lecture " <i>Production and Operations Management</i> " (M.Sc., ETH Zurich)

Master's Thesis Supervision

2023	<i>Sauber AG</i> , M.Sc. Thesis on Agile Management in Formula One
2023	<i>Audi AG</i> , M.Sc. Thesis on Cost Prediction of Projects using Machine Learning
2023	<i>General Electric</i> , M.Sc. Thesis on Effects of Digital Technologies in Healthcare
2023	<i>Lindt</i> , MBA Thesis on Process Mining to Improve Logistical Processes
2023	<i>Kuenzli Holz</i> , M.Sc. Thesis on Improving Project Management
2023	<i>INRA Group</i> , MBA Thesis on Throughput Optimization using Digital Technologies
2022	<i>Bachem Holding AG</i> , MBA Thesis on Opportunistic Behavior
2022	<i>Roche</i> , M.Sc. Thesis on Operational Transparency
2022	<i>Intamin Amusement Rides</i> , MBA Thesis on Sustainability in the Theme Park Industry
2021	<i>Syngenta</i> , M.Sc. Thesis on Sustainability in the Chemical Industry
2021	<i>Zweifel AG</i> , M.Sc. Thesis on Overcoming Obstacles to Digitalization in SMEs
2021	<i>Hilti</i> , M.Sc. Thesis on Digital Shop Floor Management
2021	<i>Fischer Fuel Cell</i> , MBA Thesis on Data Management of Duplicated Assembly Lines
2020	<i>Hitachi Ltd.</i> , MBA Thesis on Engineering Change Processes
2020	<i>SBB Cargo</i> , MBA Thesis on Digital Process Improvement
2020	<i>Rolex</i> , M.Sc. Thesis on Demand Smoothing for Tool Manufacturing

Refereed Journals Articles

- Netland, T., Lorenz, R., Kwasnitschka, D., Senoner, J., Grof, C. Immersive Learning with Virtual Field Visits: Spherical Video-Based Virtual Reality of Factory Environments. **INFORMS Transactions on Education**
<https://doi.org/10.1287/ited.2022.0067>
- Franke, H., Kwasnitschka, D., Schmutz, J., Netland, T. (forthcoming) Emphasizing Worker Identification with Skills to Increase Helping and Performance in Production: A Field Experiment. **Journal of Operations Management**.
- Kwasnitschka, D., Franke, H., Netland, T. (forthcoming). Effects of Feedback in Manufacturing: A Field Experiment using Smartwatch Technology. **Journal of Operations Management**.

In Progress Journal Articles

In Review / Ready for Submission

- Kwasnitschka, D., Franke, H., Netland, T., Sparr, J., Waldman, D. (full manuscript) Untying the Knot: Paradoxical Responses to Digital Production Technologies. Target: ***Academy of Management Journal***.
- Kwasnitschka, D. (under review). Wearable Technology and Autonomy in Task Selection: A Field Experiment in a Batch Production Setting. Target: ***Management Science***.
- Somitsch, B., Kwasnitschka, D., von Dzengelevski, O., Netland, T. (full manuscript) Improving product changeover performance using operational transparency: Intervention-based research at Roche. Target: ***Production and Operations Management***.
- Netland, T., Tesch, K., Kwasnitschka, D., von Dzengelevski, O. (full manuscript) AI-Human Collaboration in Teaching: Auto-Generation and Test of Operations Management Education Videos. Target: ***Journal of Operations Management***.

Work in Progress.

- Kwasnitschka, D. (design stage). A Case Study on Data Science Democratization in Organizations. Target: *to be set*.
- Kwasnitschka, D. (design stage). A Field Experiment on Operational Safety using Digital Technology Interventions in Formula One . Target: *to be set*.

Conference Contributions

Planned events:

- Franke, H., Kwasnitschka, D., Schmutz, J., Netland, T. (2024) Emphasizing Worker Identification with Skills to Increase Helping and Performance in Production: A Field Experiment. Target. *34th POMS Annual Conference 2024* (Minneapolis, MN).

Past events:

- Netland, T., Tesch, K., Kwasnitschka, D., von Dzengelevski, O. (2023) AI-Human Collaboration in Teaching: Auto-Generation and Test of Operations Management Education Videos. *54th Annual Conference of the Decision Sciences Institute 2023* (Atlanta, GA) – **Nominee for the DSI Instructional Innovation Award**
- Kwasnitschka, D., Franke, H., Netland, T. (2023) Give me a Choice! A Field Experiment on Task Choice in a Batch Production Setting Using Wearables. *54th Annual Conference of the Decision Sciences Institute 2023* (Atlanta, GA).
- Kwasnitschka, D., Franke, H., Netland, T. (2023) Effects of Feedback in Manufacturing: A field Experiment using Smartwatch Technology. *83rd Academy of Management Annual Meeting 2023* (Boston, MA).
- Fiedler, J., Kwasnitschka, D., Franke, H., Netland, T. (2023) Does Shop-Floor Digitalization increase Blue-collar Autonomy? A Multiple Case Investigation. *30th EurOMA Conference 2023* (Leuven, Belgium).
- Netland, T., Tesch, K., Kwasnitschka, D., von Dzengelevski, O. (2023) AI-Human Collaboration in Teaching: Auto-Generation and Test of Operations Management Education Videos. *30th EurOMA Conference 2023* (Leuven, Belgium) – **Winner of the Nigel Slack Teaching Innovation Award**
- Kwasnitschka, D., Franke, H., Netland, T. (2023). Providing real-time feedback to workers: A field experiment in a digitalized production setting. *33rd POMS Annual Conference 2023* (Orlando, FL).
- Kwasnitschka, D., Franke, H., Netland, T. (2022) Give me a Choice! A Field Experiment on the Performance Effects of Smartwatch-Based Task Assignment. *82nd Academy of Management Annual Meeting 2022* (Seattle, WA) – **Nominee for the OSCM Chan Hahn Best Paper Award**
- Kwasnitschka, D., Franke, H., Netland, T. (2022) Providing real-time feedback to workers: A field experiment in a digitalized production setting. *29th EurOMA Conference 2022* (Berlin, Germany) – **Nominee for the Harry Boer Best Student Paper Award**
- Kwasnitschka, D., Franke, H., Netland, T. (2022). „Give me a Choice! A Field Experiment on the Performance Effects of Smartwatch-based Task Assignment” *32nd POMS Annual Conference 2022* (held online) – **Nominee for the POMS College of Operational Excellence Best Paper Award**
- Kwasnitschka, D., Franke, H., Netland, T. (2021) Paradoxes of Process Digitalization and Worker Behavior. *81st Academy of Management Annual Meeting 2021* (held online).
- Kwasnitschka, D., Franke, H., Netland, T. (2021) Are We on Track? Paradoxes of New Technology on the Shop Floor. *28th EurOMA Conference 2021* (held online).
- Netland, T., Lorenz, R., Kwasnitschka, D., Senoner, J. (2021) A virtual reality app for teaching operations management. *28th EurOMA Conference 2021* (held online) – **Winner of the Nigel Slack Teaching Innovation Award**

References

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