

Markus Gödker

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About me

Fields: Engineering psychology, cognitive psychology, human factors, motor skill learning

Methods: Experiments (e.g., driving simulation, eye-tracking), online studies, qualitative research methods

Education

Ph.D. University of Lübeck, Institute of Multimedia and Interactive Systems

- Field: Engineering Psychology
- Supervisor: Prof. Dr. Thomas Franke ([Webpage](#))

Lübeck, DE
02/2018 – 07/2025
(planned)

M.Sc. University of Bonn, Institute of Psychology

- Major: Psychology
- Grade: 1,3
- Supervisor: Prof. Dr. Ulrich Ettinger ([Webpage](#))

Bonn, DE
10/2014 – 09/2017

B.Sc. Université du Luxembourg

- Major: Psychology
- Grade: 17,6 ('very good')
- Supervisor: apl. Prof. Dr. Sabine Glock ([Webpage](#))

Luxembourg, LU
09/2011 – 07/2014

Past positions

Visiting Researcher
Princeton University (Department of Psychology)

- Prof. Jordan Taylor ([Webpage](#))

Princeton, NJ, USA
09/2024 – 12/2024

Intern
German Aerospace Center, DLR e.V. (Aerospace Psychology)

- Dr. Dirk Schulze-Kissing ([E-mail](#))

Hamburg, DE
03/2016 – 07/2016

Intern
Université du Luxembourg (Research Group Computer-Based Assessment)

- Prof. Dr. Samuel Greiff ([Webpage](#))

Luxembourg, LU
02/2014 – 07/2014

Intern
ITB Consulting GmbH (Management Diagnostics and Aptitude Testing)

- Pia Petruschke ([LinkedIn](#))

Bonn, DE
07/2013 – 09/2013

Publications (selection)

Articles

- Gödker, M., Schmees, S., Bernhardt, L., Görges, D., & Franke T. (2025) **Two Types of Eco-Driving Support - The Effects of an Instantaneous Consumption and an Optimal Speed Display on Energy-Efficient Driving and Energy Dynamics Awareness**
(Published as [Preprint](#))
- Gödker, M., Schrills, T., & Franke T. (2025) **Improved Ecodriving Using Instantaneous Consumption Displays in an Electric Vehicle Driving Simulator: The Role of Energy Dynamics Awareness**
(Published as [Preprint](#))
- Gödker, M., Moll, V. E., & Franke, T. (2024). **Energy Consumption Displays in Electric Vehicles: Differential Effects on Estimating Consumption and Experienced Energy Dynamics Awareness.** *Human Factors*, 0(0). [Link](#)

Conference articles

- Gödker, M., Schmees, S., Bernhardt, L., Heidinger, J., Görges, D., & Franke, T. (2024, September). **Driving Simulation for Energy Efficiency Studies: Analyzing Electric Vehicle Eco-Driving With EcoSimLab and the EcoDrivingTestPark.** In *Proceedings of the 16th International Conference on Automotive User Interfaces and Interactive Vehicular Applications* (pp. 32-42). [Link](#)
- Gödker, M., Franke, T. (2024). **Assessing Energy-Related Situation Awareness Using Self-Controlled Occlusion During Electric Vehicle Driving Scenes.** In G. Praetorius, C. Sellberg, & R. Patriarca (Eds.) *Advances in Human Factors of Transportation*. AHFE (2024) International Conference. [Link](#)
- Gödker, M., Moll, V., Franke, T. (2024). **Feeling comfortable? Exploring the relation between personality, competence, and range interaction in electric vehicles.** In G. Praetorius, C. Sellberg, & R. Patriarca (Eds.) *Advances in Human Factors of Transportation*. AHFE (2024) International Conference. [Link](#)

Pre-PhD

- Stadler, M., Becker, N., Gödker, M., Leutner, D., & Greiff, S. (2015). **Complex problem solving and intelligence: A meta-analysis.** *Intelligence*, 53, 92-101. [Link](#)

Conferences

- *International ACM SIGCHI Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutoUI)*, 2024, Talk & Conference Article
- *International Conference on Applied Human Factors and Ergonomics (AHFE)*, 2024, Talk & Conference Article
- *Human Factors and Ergonomics Society Europe Chapter Annual Meeting*, 2024, Talk
- *Tagung experimentell arbeitender Psycholog:innen (TeaP)*, 2024, Talk
- *Tagung experimentell arbeitender Psycholog:innen (TeaP)*, 2023, Talk
- *DGPs Kongress*, 2022, Talk
- *International Conference on Human-Computer Interaction (HCI)*, 2020 (online), Talk & Conference Article
- *Mensch und Computer*, 2019, Poster & Short Paper
- *Fachgruppentagung Verkehrspsychologie*, 2019, Talk
- *Mensch und Computer*, 2018, Poster & Short Paper
- *Human Factors and Ergonomics Society Europe Chapter Annual Meeting*, 2018, Poster

Grants and Awards

Self-raised

- VRC Corporation Exchange Grant, **1 200 €**, HFES Europe Chapter

Raised as part of the project team

- Funding program 'HWT Energie und Klimaschutz'; project 'ECO.SHARE', **150 000 €**, Ministry of Economic Affairs Schleswig-Holstein

- Individual Research Grant; project 'AMORi', **330 000 €**, German Research Foundation (DFG)
- 5G-innovation program; project '5G-TELK-NF', **250 000 €**, Federal Ministry of Transport
- AI funding guideline; project 'MASIRI', **600 000 €**, State Chancellery Schleswig-Holstein
- Industry project 'ChargeUP UxVxG', **40 000 €**, Honda Research Institute
- Funding program 'Energie-Forschungsinfrastruktur'; project 'ReNuBiL', **800 000 €**, Business Development and Technology Transfer Corporation of Schleswig-Holstein (WTSH) and EFRE
- Funding program 'HWT Energie und Klimaschutz'; project 'E.CarShare+', **150 000 €**, Ministry of Economic Affairs Schleswig-Holstein

Research project management

Energy-optimized corporate car sharing of electric vehicles in Schleswig-Holstein (ECO.SHARE) Link	2022 - 2024
Multi-Agent-Simulation of Intelligent Resource Regulation in Integrated Energy and Mobility (MASIRI) Link	2021 - 2022
Real-world laboratory for user-centered bidirectional charging (ReNuBiL) Link	2020 - 2022
User-centered range management for electric buses (NuR.E) Link	2018 - 2020

Teaching

<i>Engineering Psychology</i> (Master Media Informatics)	2020, 2024
<i>Perception & Cognition</i> (Bachelor Media Informatics)	2020
<i>Media Psychology</i> (Bachelor Media Informatics)	2019
Supervising RA of over 20 <i>student thesis projects</i> (Bachelor and Master level Media Informatics and Psychology)	2018 - 2025
Supervising RA of 7 groups of students in <i>practical modules</i> (Bachelor and Master level Media Informatics)	2018 - 2023
Additionally: lecturing single units in the modules <i>Motivation and Emotion, Engineering Psychology, Traffic Psychology, Scientific Methods</i>	

Academic service

- Member of the appointment committee for the professorship (W2) for ethical, legal, and social aspects of artificial intelligence 2022
- Media Informatics program coordination 2019
- Collaboration in the accreditation of the Media Informatics degree program in 2019
- Peer-reviews for *Energy Research & Social Science*, *Transportation Research Part A* and *Part F*, *IEEE Transactions on Human-Machine Systems*, *IEEE Vehicular Technology Magazine*, *ACM Transactions on Computer-Human Interaction* and *Computers in Human Behavior Reports*

Other

- **Languages:** German, English, French
- **Coding:** R (R-Studio), Python (PsychoPy, Mesa), $\text{\LaTeX}$, NetLogo