

Contact

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LINKEDIN

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LOCATION

Witten, Germany

Education

since 2021

Doctoral Studies (Dr. rer. medic.)

Witten/Herdecke University

2013–2016

M.Sc. Computer Science

TU Dortmund University

2009–2013

B.Sc. Computer Science

TU Dortmund University, minor in Physics

Skills

Digital Health

Scrum

Machine Learning

Biosignal Analysis

Smart Home & Emergency Care

Requirements Engineering

User-Centered Design

Mixed-Methods Research

Gamified Therapy (VR/AR)

Team and Project Leadership

Languages

German native

English fluent

Certifications

IREB CPRE

Certified Professional for Requirements Engineering

Scrum.org

Professional Scrum Master, Product Owner, Agile Leadership, Evidence-Based Management, Product Discovery & Validation

Curriculum Vitae

Michael Pantförder

Team Lead and Senior Engineer, Fraunhofer ISST

Profile

Researching digital health applications at Fraunhofer ISST since 2016 and leading a research group with staff and budget responsibility since 2022. Focus areas are AI-based biosignal analysis and smart home emergency response systems, developed with user-centered and participatory methods.

Professional Experience

● since 01/2022

Team Lead and Senior Engineer

Fraunhofer Institute for Software and Systems Engineering ISST, Dortmund, Germany

- Leading an interdisciplinary research group of up to 20 staff working on health applications with a focus on data science and data ecosystems
- Responsible for an annual third-party funding budget of around €1.5M and for acquiring research and industry projects
- Project management and requirements engineering, including smart home emergency response systems, AI-based analysis of ECG and auscultation signals, and e-mental health

● 08/2016–12/2021

Research Associate

Fraunhofer ISST, Dortmund, Germany

- Project management and requirements engineering in research and industry projects on VR/AR, gamified therapy approaches, voice interaction, pattern recognition in biosignals and machine learning
- Led an R&D collaboration with a leading pharmaceutical company
- Inventor on patent application WO 2022/023420 for the analysis of acoustic signals

● 2012–2015

Student Positions

Research Assistant, Fraunhofer ISST (2013–2015) · Student Assistant, TU Dortmund (2015) · Working Student, Heitmann IT GmbH (2012–2013)

Selected Publications

Pantförder, M., Krüger, O., Rietz, A., Dzieia, C. & Meister, S. (2026): User Acceptance of Smart Home Emergency Response Systems: Mixed Methods Study. *JMIR Human Factors*, 13:e93003.

Bisgin, P., Strube, T., Tschorn, N., **Pantförder, M.** et al. (2025): Improving AI-Based Canine Heart Disease Diagnosis with Expert-Consensus Auscultation Labeling. *IEEE EMBC 2025*, pp. 1–7.

Pantförder, M. & Hellwig, A. (2022): Designing Neurogames to Support Patients under Psychotherapy Treatment: Opportunities and Challenges of the MUSE Headband. *HEALTHINF 2022*, pp. 296–305.

11 peer-reviewed papers in journals and conference proceedings in total. Full list on [Google Scholar](#) and [ORCID](#).