

Marko Pinterić

Physicist | Experimental Research
and Data Analysis

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Profile

PhD physicist with extensive experience in experimental research, data analysis, and scientific software development. Skilled in conducting precise experiments, analysing complex datasets, and developing Python-based data analysis tools. Interested in applied R&D and industry-focused innovation.

Professional Experience

2025–Present **Research Associate**, *University of Stuttgart*, Stuttgart

- Conducted experimental research and data analysis in optical spectroscopy.
- Developed measurement and data analysis software in Python.

2010–2025 **University Lecturer**, *University of Maribor*, Maribor

- Conducted experimental research and data analysis in dielectric and magnetic spectroscopy.
- Conducted experimental research and data analysis in heat transfer and acoustics.
- Wrote expert elaborates in building physics for industry.
- Lectured physics and building physics.
- Authored two books published by Springer, one translated to Chinese.

2004–2010 **Head of R&D**, *Epi Spektrum Ltd*, Maribor

- Measured, modelled and analysed acoustic data.
- Wrote noise prediction and mitigation elaborates for industry.
- Used and scripted GIS software.

1997–2004 **Graduate/Doctoral Researcher**, *University of Maribor*, Maribor

- Conducted experimental research and data analysis in dielectric and magnetic spectroscopy.

Education

2003 **PhD in Physics**, *University of Zagreb*, Zagreb

Topic: Dielectric and magnetic spectroscopy of complex materials

2000 **MSc in Physics**, *University of Zagreb*, Zagreb

1997 **BSc in Physics**, *University of Zagreb*, Zagreb

Key Competencies

Experimental Dielectric, magnetic and optical spectroscopy; laboratory instrumentation; experience with cryogenic and low-pressure systems.

Programming Python (advanced), C/C++ (intermediate), Assembly (basic), VBA, HTML, \LaTeX .

Electronics Microprocessor programming and communication (Arduino, Raspberry Pi); sensor integration; basic PCB design; open-source hardware and software solutions used by other developers: github.com/marko-pi.

Publications Author of several books; preparation of technical expert reports for industry.

Software ArcView (GIS), FreeCAD (CAD), Origin (data analysis), IMMI (acoustic simulation).

Collaboration and Innovation Working in interdisciplinary and multicultural teams, finding new approaches to problems.

Languages

English C2
German B2
Croatian Native
Slovene Native

Bibliography

- 2017 *Building Physics: From Physical Principles to International Standards*, Springer (2017); 2nd ed. (2021); Chinese translation (2021)
2024 *Problems in Building Physics*, Springer (2024).

Personal Interests

Music Member of Philharmonia Chor Stuttgart, KonzertChor of Liederkranz Stuttgart and Stuttgart Oratorienchor.
Outdoors Regular hiking in the Schwäbische Alb region, cycling.
Technology Model trains, LCD displays, Repair Café.