

Matej Ditte, PhD



Independent Scientist and Lecturer

Computational Chemistry & Materials Science • Scientific Software • HPC • Math & Physics

CONTACT



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Bridel, Luxembourg

PROFILE

I am a physicist with nine years of experience developing and applying advanced models and methods to predict the physical and chemical properties of molecules and materials. I held four research positions across three academic groups, resulting in eight publications in top-tier journals, including two in the most prestigious journal in physics. I am a founder of HPsi Computing, a company through which I work as an independent scientist and lecturer for private and public organisations

INTERESTS

- Modelling & simulations
- Scientific programming
- Numerical mathematics
- Optimization
- Data analysis

SKILLS

- Field relevant methods and software
- C++, Fortran, Python, Bash script
- Linux
- Git/GitHub
- High-performance computing (HPC)
- Mathematica, MATLAB

EDUCATION

- PhD in Physics, 2024
University of Luxembourg
Luxembourg
- MSc in Solid State Physics, 2019
Comenius University, Slovakia
- BSc in Physics, 2016
Comenius University, Slovakia

LANGUAGES

- English - C1
- Slovak - native

EXPERIENCE

- Independent scientist and lecturer
HPsi Computing (LU), Sep. 2025
 - Consulting, hands-on support, and training services in R&D
- Personal goal pursuit
Sep. 2024 to Aug. 2025
 - finalisation of several projects
 - sorting of ideas, preparation for the launch of HPsi Computing
- Postdoctoral researcher
University of Luxembourg (LU), Mar. 2024 to Aug. 2024
- Doctoral researcher
University of Luxembourg (LU), Nov. 2019 to Feb. 2024
- Research assistant
University of Ostrava (CZ), Jul. 2018 to Aug. 2019
- Student projects
Slovak Academy of Sciences (SK), Sep. 2017 to Jun. 2018
and Sep. 2015 to Jun. 2016
 - Non-covalent interactions
 - Multiscale modelling
 - Comparison of computational methods with experiments
 - Quantum Monte Carlo, vdW corrected DFT
- Administrator of security
and network operation centre
National Agency for Network and Electronic Services (SK),
Sep. 2016 to Jul. 2018
 - Monitoring of the eGovernment services
- Tutor of mathematics and physics
Cielene (SK), Jan. 2014 to Aug. 2016
 - Individual and group lessons at the elementary, high school and university level