MARIA NOVAK

Research Scientist

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Computational Materials Science

Employment

2023–present **Research Scientist, Alloy Dynamics Group, University of Cambridge.** *Lead investigator on a three-year grant modelling grain-boundary diffusion in nickel superalloys; supervise two PhD students and manage the group's compute allocation on the departmental cluster.*

2020–2023 **Postdoctoral Researcher, Max Planck Institute for Iron Research, Düsseldorf.** *Developed a Monte Carlo framework for simulating precipitate coarsening; results published in three peer-reviewed papers and adopted by the group's industrial partners.*

Education

2016–2020 PhD in Materials Science, Imperial College London. *Thesis: "Diffusion Pathways at Coherent Interfaces in Ni-based Superalloys."*

2012–2016 MSci in Physics, University of Bristol. First Class Honours.

Languages

Polish	native
English	fluent
German	working

Technical Skills

- Python, C++, Fortran
- LAMMPS, VASP, OVITO
- Linux HPC, Slurm, Git

Interests

Rock climbing, chamber music, long-distance cycling, and restoring old bicycles.

Selected Publications

Grain-boundary diffusion in Ni-Cr-Al alloys: a multiscale study, M. Novak, J. Fischer, *Acta Materialia*, 2023, 241, 118372.

Precipitate coarsening under thermal cycling, M. Novak, *Journal of Materials Science*, 2021, 56, 15234–15248.

References

Available on request.