

CONTACT

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EDUCATION

Ph.D. (Dr. rer. nat.), Computer Science
Heidelberg University,
2021–2025
Advisor: Prof. Christian Schulz

M.Sc., Mathematics
Heidelberg University,
2019–2020

B.Sc., Mathematics
Heidelberg University,
2015–2019

LANGUAGES

German
native

English
fluent

Norwegian
A2–B1

Ernestine Großmann

POSTDOCTORAL RESEARCHER · ALGORITHM ENGINEERING

Ph.D. (Dr. rer. nat.) Computer Science · M.Sc. Mathematics
Heidelberg, Germany

PROFILE

I develop practical, efficient algorithms for large-scale graph problems — data reductions, maximum-weight independent sets, and combinatorial optimization.

APPOINTMENTS

since 2025	**Postdoctoral Researcher**, Algorithm Engineering Group (Prof. Christian Schulz), Heidelberg University.
2024	**Research visits**, University of Bergen (Jun–Jul and Nov–Dec 2024).

RESEARCH

Interests	Maximum Weight Independent Sets · 2-Packing Sets · Weighted Connectivity Augmentation · Hypergraph b-Matching · Dynamic Independent Sets
Publications	**13** conference and journal papers across **7** venues
Professional service	program committee for ESA'26, GraphSys'26, CompAI; organizing committee for SEA'22, PACE'22; regular reviewer for journals and conferences

TEACHING

Lectures	Winter 2026 / 2027	Algorithms and Data Structures 2
	Summer 2026	Algorithm Engineering
	Winter 2025 / 2026	Algorithms and Data Structures 2
	Summer 2025	Distributed and Parallel Algorithms
Supervision	**18** theses co-supervised (12 B.Sc., 6 M.Sc.)	