

Marvin Beckmann

Curriculum Vitæ

Education

10/2024– Present	PhD Student, Technical University Denmark (DTU). On post-quantum key exchange under the supervision of Christian Majenz
10/2022- 9/2024	Master Computer Science , <i>Paderborn University</i> , Average: 1.0 with distinction. "Module-Based Fiat-Shamir Lattice Signature with Convolved Gaussians"
10/2019- 09/2022	Bachelor Computer Science , <i>Paderborn University</i> , Average: 1.6. "Analysis of an interactive lattice based aggregated signature scheme"
2011- 06/2019	General Higher Qualification for University Entrance , <i>Gymnasium Barntrup</i> , Average: 1.0.

Research-Related

03/21/2025	Nordicrypt, IT University of Copenhagen.
	Presentation on ODD-SAKE (not yet published)
05/26/2024-	PenteQost, Siegen University.
05/30/2024	PenteQost Spring School on Quantum Science 2024
03/08/2024	YRCS, Paderborn University.
	Presentation on [Por+23a; Por+23b]

Experience

University

02/2025— Present	Master Thesis Co-Supervision, Technical University Denmark. "Algebraic lattices and authenticated key encapsulation mechanisms"
02/2025– Present	Teaching Assistant , <i>Technical University Denmark</i> , Introduction to Numerical Algorithms.
04/2023- 10/2024	Student Research Assistant , <i>Paderborn University</i> , Research under the supervision of Prof. Dr. Johannes Blömer on lattice-based signatures, device-independent quantum key distribution, quantum algorithms for BDD and further development of qFALL [Por+23a; Por+23b].

04/2021- 09/2023	Student Assistant , <i>Paderborn University</i> , Planning lecture slots for the Computer Science Department.
10/2020–	Teaching Assistant, Paderborn University, Modelling, Data structures and Algo-
03/2024	rithms, 2 x Computability and Complexity, Introduction to Cryptography, Foundations
00/2021	of Cryptography.
08/2020-	Teaching Assistant Training, Paderborn University, Training for online teaching
10/2021	and Moodle.
10/ 2021	and module.
	Academic Self-Administration
	As PhD Student
01/2025-	PhD Committee, Technical University Denmark.
Present	In DTU Compute
	As Student
0000 0004	
2023–2024	Committee for Research and Junior Academics, Paderborn University.
2023–2024	Student Parliament, Paderborn University.
2023–2024	Committee for Deutschlandstipendium, Paderborn University.
2022–2023	Study Advisory Council, Paderborn University.
	In the Faculty of Electrical Engineering, Computer Science and Mathematics
2022-2023	Examination Committees, Paderborn University.
	In Computer Science and Mathematics
2022	Weierstraßcommittee, Paderborn University.
	Awards the price for best teaching
2021-2023	Committees of Study Content, Paderborn University.
	In Computer Science and Mathematics
2021-2024	PhD Committees, Paderborn University.
	In Computer Science (3 years) and Mathematics (1 year)
2021-2023	Evaluation Committees for Juniorprofessorships , <i>Paderborn University</i> .
	In Computer Science (1) and Mathematics (2)
2021-2022	Appointment Committees, Paderborn University.
	In Computer Science (1) and Mathematics (1)
	Social
11 /0000	
11/2022-	All Day Research Podcast, Paderborn University, Host.
09/2024	Podcast of the Computer Science Department
10/2020- 09/2024	Student Council Mathematics and Computer Science , <i>Paderborn University</i> , Organisation of Orientation-Week, events and academic self-administration.
01/2018-	Taekwondo Training for Children, TV Barntrup.
10/2019	rackwondo framing for Children, TV Damuap.
02/2018–	Jugendklimaparlament Lippe, Detmold, Co-Founder.
02/2010-	Yest Class Butter of City Institute Co-1 outlider.

Youth Climate Parliament of the district Lippe

07/2019

08/2014– **Student Council at School**, *Gymnasium Barntrup*, Student Body President, 07/2019 Treasurer, several Events: e.g. Projectweek, "Tag für Afrika".

Awards and Scholarships

04/2022- **PRISMA**, *Paderborn University*, Support Programm for excellent Computer Science 09/2024 Master Students (for Research-Interested Students).

09/2021– **Heinz-Nixdorf Program EIM**, *Paderborn University*, Support Program for excellent Computer Science Bachelor Students.

10/2020- **Deutschlandstipendium**, *Stiftung Studienfonds OWL*, Scholarship. 09/2023

Languages

German Native
English Fluent
Swedish Beginner
Danish Beginner

Programming Skills

Rust

Python

R

Interests

- Teakwondo (1.DAN, TV Barntrup & Tennis (TC Barntrup & VSV Teutonia DTU Son Taekwondo) Silixen)
- Fitness Badminton (TV 1875 Paderborn)
- Ultimate Frisbee Swimming

References

- [Por+23a] Laurens Porzenheim, Marvin Beckmann, Paul Kramer, Phil Milewski, Sven Moog, Marcel Schmidt, and Niklas Siemer. *qFALL-crypto*. 2023. URL: https://github.com/qfall/crypto.
- [Por+23b] Laurens Porzenheim, Marvin Beckmann, Paul Kramer, Phil Milewski, Sven Moog, Marcel Schmidt, and Niklas Siemer. *qFALL-math*. 2023. URL: https://github.com/qfall/math.