

Thomas Kerber

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Education

The University of Edinburgh

PhD in Blockchain Privacy

Supervised by Aggelos Kiayias.

Edinburgh

since 2017

The University of Edinburgh

B.Sc. Computer Science

With first-class honours, and a course average of 85%.

Edinburgh

2013–2017

Werner-Heisenberg Grammar School

Abitur (Baccalaureate)

Average grade of 1.4¹(714 of 840 points), the second best result of the 86 students of the year.

Received school prizes for the best result in both the mathematics exam and the physics exam.

Neuwied, Germany

2006–2013

University of Koblenz

Early Studies

Took standard introductory computer science courses alongside school, as well as sitting exams for them.

Completed three courses over the span of two years, with very high grades in each. In one, received the best result out of all students taking the course.

Koblenz, Germany

2011–2012

Experience

The University of Edinburgh

Teaching Support

Teaching assistant in for the “Computer Security” 3rd year course, as well as tutoring for the “Processing Formal and Natural Languages” 2nd year course, and the “Introduction to Computation” 1st year course.

Edinburgh

since 2015

The University of Edinburgh

Research Intern

Analysing low-level security of SIM cards and smartcards.

Edinburgh

Jun.–Jul. 2016

Technical Knowledge

Linux: Robust knowledge

Cryptography.....

Proof Strategies: (G)UC, Simulation Security, π -calculus.

Themes: Zero knowledge, distributed ledgers, formal verification.

Programming languages.....

Experienced: C, Java, Python, Ruby, Go, Rust, Haskell, and Agda.

Some experience: PHP, Ruby, Scala, Javascript, Idris, and Actionscript.

Languages

English: Native

German: Native

¹The highest grade is 1.0, the lowest 6.0. The passmark is at 4.0.

Awards

The University of Edinburgh Jointly received the class prize for best overall performance in the degree of BSc. Computer Science.	2017
The University of Edinburgh Jointly received the JP Morgan prize for best final year performance in the School of Informatics.	2017
Build-it, Break-it, Fix-it Second place builder in the world-wide competition.	2016
Deloitte CTF On the runner up team of the UK-wide CTF competition.	2016
Scottish Universities Cyber Challenge (Cyber Challenge UK) On the runner up team.	2016
The University of Edinburgh Received the Morgan Stanley award for the top performing student in the penultimate year in Computer Science.	2016
The University of Edinburgh Received the Google award for the best computer science large practical.	2016
“Bundeswettbewerb Informatik” Won a 1st prize in the 1st round of the German federal computer science competition.	2012
German Maths Olympiad Qualified for the final selection for the state team with a 1st prize in the 3rd round three times in a row.	2010–2012
“Bundeswettbewerb Mathematik” Won a 3rd prize in the 1st round of the German federal mathematics competition.	2011
“Landeswettbewerb Mathematik Rheinland-Pfalz” One of roughly 30 finalists of the state mathematics competition of Rhineland-Palatinate.	2007–2009