

# THEO KOPPENHÖFER

## Curriculum vitae

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## ABOUT ME

Currently I am a PhD student at Heriot Watt University in Edinburgh. You may find that I like maths. More specifically I focus on analysis of partial differential equations and more specifically water waves under the supervision of Daniel Coutand and Beatrice Pelloni. During my bachelors I also focused on numerical analysis though I have taken courses all over the shop in mathematics (and some physics). As a result of a summer project in 2024 I am one of the co-founders of [kravianalytics](#). When I find the time I enjoy reading. A lot. Besides of that I regularly go out for hikes and cycle rides in the surrounding nature. Originally I am from Heidelberg, Germany.

## FACTS

Full name	Theo Benjamin Koppenhöfer
Date of birth	9. November 2000
Place of birth	Heidelberg, Germany
Nationality	German, British

## EDUCATION

autumn 2024 – 2027	Mathematics PhD, Heriot Watt University, Scotland
autumn 2022 – spring 2024	Mathematics Msc., Lunds Universitet, Sweden
autumn 2023 – spring 2024	Svenska som andraspråk 2, Komvux Lund, Sweden
autumn 2019 – summer 2022	Mathematics Bsc., Universität Bonn, Germany
autumn 2011 – summer 2019	Abitur, St. Raphael Gymnasium Heidelberg, Germany

## THESES

Master thesis	Some relations between equilibria of harmonic vector fields and the domain topology, applied analysis, under the supervision of Erik Wahlén
Bachelor thesis	Adaptive finite element methods in linear elasticity (in German, mark: 1.1), numerics, under the supervision of Joscha Gedicke

## COMPUTING SKILLS

General programming	python, C, C++, OpenMPI
Mathematical languages	Wolfram Mathematica, Matlab, Maple
Basic webdesign	HTML, Javascript, CSS, php (I maintained the website calcfee.com for a year where one could calculate paypal transaction fees)
Linux / Unix	git, bash, makefiles
Other	L <sup>A</sup> T <sub>E</sub> X

## LANGUAGE SKILLS

English	Native speaker
German	Native speaker
Swedish	Intermediary knowledge
French	Basic knowledge (B1)
Latin	Basic knowledge (Latinum)

## OTHER

October 2025 – January 2026	PhD representative for the Heriot-Watt University Committee for Research and Innovation
August 2025 –	PhD representative for mathematics at Heriot Watt University
December 2024 –	One of the organisers of the Heriot-Watt MACS PhD seminar
Summer 2024 –	Spend my free time advising and coding for kravianalytics
June 2024 – September 2024	Programmed a prototype vessel detection software for what became kravianalytics