

SIMON HALVDANSSON

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EDUCATION

NTNU Norwegian University of Science and Technology

Aug 2021 - May 2025 (Expected)

Ph.D. in Mathematics

Thesis: Foundations of Quantum Harmonic Analysis and Applications to Time-Frequency Analysis

Lund University

Aug 2016 - Jun 2021

M.Sc. and B.Sc. in Mathematics

GPA: 4.0/4.0

Master thesis: Existence and Approximations of Optimal Wavelets

Bachelor thesis: Computations with the 2D Coulomb Gas

EXPERIENCE

NTNU Norwegian University of Science and Technology

Aug 2021 - Present

PhD Candidate

Trondheim, Norway

- Authored 6 research articles in the fields of time-frequency analysis, functional analysis and operator theory
- Presented my work to international audiences at 10+ conferences, workshops and seminars
- Spent 3 months as a visiting researcher at NuHAG at the University of Vienna in spring 2024
- Administered first year calculus courses, held exercise sessions, wrote problems and solutions, mentored students and graded exams (2 courses per year)

RSA Ductor

Summer 2017

Web Developer Consultant

Stockholm, Sweden

- Developed a web application to support internal business processes using AngularJS

DeLaval

Summer 2015 and 2016

Web Developer

Stockholm, Sweden

- Designed and developed features for customer facing mobile web application using AngularJS, packaged it into Android app with notifications etc., and contributed to Java backend

PROJECTS

Harmonic for Hacker News

Aug 2020 - Present

- Developed the top downloaded Hacker News client for Android with 6000+ daily active users, open sourced with 600+ GitHub stars

Various Android apps

2012-2016

- Developed several Android applications with a combined total of 100 000+ downloads and €2500+ revenue

TECHNICAL SKILLS

Languages Python, Java, JavaScript, C++, C#, MATLAB

Libraries PyTorch, NumPy, SciPy, AndroidX, LTFAT, Matplotlib

Tools Git, VS Code, Android Studio, LaTeX, Photoshop