SIMON HALVDANSSON

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EDUCATION

NTNU Norwegian University of Science and Technology   Aug 2021 - Jun 2025
Ph.D. in Mathematics
Thesis: Extensions 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

SINTEF Energy   May 2025 - Present
Research Scientist   *Trondheim, Norway*

NTNU Norwegian University of Science and Technology   Aug 2021 - May 2025
PhD Candidate   *Trondheim, Norway*

· Authored 8 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
· Held exercise sessions, wrote problems and solutions, mentored students and graded exams (2 courses per year)
· Refereed papers and submitted opinions for Journal of Fourier Analysis and Applications, Journal of Mathematical Physcs, SampTA 2025 and Journal of Functional Analysis

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 700+ 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