

JONNA C RODEN

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PROFESSIONAL EXPERIENCE

PhD Applied and Computational Mathematics since 09/2018

University of Edinburgh, Maxwell Institute Graduate School in Analysis and its Applications

Research Expertise: Mathematical Modelling, Optimization, Numerical and Computational Mathematics, Industrial Applications.

Collaborated with a team of six academics and PhD students on an industry project on modelling and optimization of marine propulsion systems. Organized a colloquium featuring research talks by three academics from the UK and Europe and an audience of 70 attendees. Gave several conference talks and submitted a paper for publication.

University Tutor and Exam Marker since 09/2019

University of Edinburgh

Tutored 150 undergraduate students in six modules on pure and applied mathematics and marked final exams, reports and coding projects.

EDUCATION

BSc Mathematics, First Class Honours (Grade: 86%) 09/2014 - 06/2018

University of Strathclyde

Awarded Astronomical Society of Glasgow Prize for the most distinguished student in the final examinations for a BSc Honours or MSc degree in Mathematics or Physics. Awarded place on Dean's List in third year.

Selected for an interdisciplinary research project on antibiotic drug discovery, collaborating with 15 students from Mathematics, Biology and Engineering and presenting results at a conference.

German Abitur (Grade: 1.6 / A*AA) 08/2011 - 07/2014

Berufliches Gymnasium Gesundheit und Soziales

Awarded DMV-Abiturpreis Mathematik, a prize for the best grade in Mathematics.

ADDITIONAL ACTIVITIES

SIAM-IMA Student Chapter Committee Member since 06/2020

Organized a four-day study group, in which three challenges were presented by industrial partners and tackled by interdisciplinary teams of PhD and MSc students from mathematics, informatics and engineering.

Established a network between the UK SIAM student chapters to facilitate efficient collaboration and knowledge exchange across the UK. Organized a talk series with PhD alumni from industry and academia, to build a vertical network of PhD graduates.

University of Edinburgh PG Colloquium Organizer 09/2019 - 08/2020

Expanded the scope of the colloquium from talks on PhD research to include speakers from different academic fields and from industry. Doubled the frequency of talks due to demand and increased attendance by 200 percent.

SKILLS

Programming

Matlab (proficient), Python, R.

Languages

German (native), English (fluent).