JONNA C RODEN

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PROFESSIONAL EXPERIENCE

University Tutor and Exam Marker   since 09/2019
University of Edinburgh

- Teaching of six courses in pure and applied mathematics to 150 undergraduate students in mathematics, informatics and engineering. Marking of exams and coding projects.

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.

- Industry project on marine propulsion systems: Designing deterministic and neural network models of the engine and optimizing for fuel efficiency to inform prototype building. Collaboration with three academics and two PhD students.

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.

EXTRACURRICULAR ACTIVITES

SIAM-IMA Student Chapter Committee Member   since 06/2020

- Organized a week-long study group with industry, bringing together ** PhD and MSc students from mathematics, informatics, engineering and geoscience to tackle three industry challenges in collaboration with the industrial partner. Awarded ** pounds of funding from **, ** and **.

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

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

- Doubled frequency of talks due to demand and increased attendance by 200 %. Expanded scope of topics from PhD research to different academic fields and to industry.

SKILLS

Programming
Matlab (proficient), Python, R.

Languages
German (native), English (fluent).