

Simon Cowell

CURRICULUM VITAE

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EDUCATION

- Ph.D., Mathematics, University of Missouri, May 2009.
Thesis Topic: Asymptotic Unconditionality
Thesis Advisor: Prof. Nigel J. Kalton
- Ph.D., Mathematics, University of Wales, Swansea, United Kingdom, May 2003.
Thesis Topic: Unitary Banach Algebras
Thesis Advisor: Dr. Geoffrey V. Wood
- B.Sc., Mathematics, University of Wales, Swansea, United Kingdom, May 1999.
First Class Honours

RESEARCH INTERESTS

Probability; Combinatorics; Mathematics for Reliability in Engineering; Mathematics for Medical Imaging; Complex Analysis, with a background in Functional Analysis and Banach Space Theory.

PROFESSIONAL EXPERIENCE

- Lector Universitar, "Aurel Vlaicu" University of Arad, August 2019 – Present.
- Senior Research Fellow (post-doctoral level), "Aurel Vlaicu" University of Arad, July 2017 – July 2019.
- Adjunct Professor (for teaching), "Aurel Vlaicu" University of Arad, July 2017 – July 2019.
- Assistant Professor, United Arab Emirates University, August 2009 - June 2017.
- Postdoctoral fellow, University of Missouri, August 2003 - May 2004.

TEACHING EXPERIENCE

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- August 2019 – Present. Lector Universitar and Senior Research Fellow (post-doctoral level), Faculty of Exact Sciences, “Aurel Vlaicu” University of Arad, Romania.
 - Mathematical and Computational Logic
 - Graph Algorithms
 - Computer Networks
 - Computer Graphics
 - Fundamental Algorithms
- September 2017 – July 2019. Senior Research Fellow (post-doctoral level), Faculty of Exact Sciences, “Aurel Vlaicu” University of Arad, Romania.
 - Computer Graphics
 - Fundamental Algorithms
 - Graph Algorithms
 - Mathematical and Computational Logic
- August 2009 - June 2017. Assistant Professor, Mathematics Department, United Arab Emirates University, UAE.
 - As Course Coordinator:
 - Linear Algebra & Engineering Applications
 - As Lecturer:
 - Set Theory and Logic
 - Calculus I for Science
 - Calculus II for Science
 - Real Analysis I
 - Complex Analysis I
 - Calculus II for Engineering
 - Contemporary Applications of Mathematics
 - Undergraduate Research Projects:
 - A Construction of the Real Numbers
 - The Fundamental Theorem of Algebra
 - The Traveling Salesman Problem
 - Graph Colouring Problems
 - Differential Equations & Engineering Applications
 - Linear Algebra & Engineering Applications
 - Introduction to Analysis
 - Calculus I for Engineering
 - As Coordinator of the Math Club:
 - Student activity - An Experiment with the Central Limit Theorem
- August 2003 - May 2009. Postdoctoral Fellow, then Teaching Assistant, University of Missouri Department of Mathematics. As Lecturer:
 - Finite Mathematics, Lecturer
 - College Algebra for Non-Calculus Bound Students, Lecturer
 - Elements of Calculus, Lecturer
 - Calculus II for Social and Natural Sciences, LecturerAs Teaching Assistant:
 - Calculus II Recitation

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- Advanced Calculus I Recitation
- Advanced Calculus II Recitation
- Precalculus Mathematics Recitation
- August 1999 - May 2003. Graduate Student, Mathematics Department, University of Wales, Swansea, United Kingdom.
 - Various grading duties.

AWARDS AND GRANTS

- Universitatea Aurel Vlaicu din Arad Diploma of Excellence for Scientific Research, 2021
- ICCCC 2020 Best paper award for the paper "Experimenting with Beta Distributions for Approximating Hammocks' Reliability". To appear in Springer proceedings.
- Funded by the European Union through the European Regional Development Fund under the Competitiveness Operational Program (BioCell-NanoART = Novel Bio-inspired Cellular Nano-architectures, POC-A1-A1.1.4-E nr. 30/2016)
- UEFISCDI Award for the paper "On the Exact Reliability Enhancements of Small Hammock Networks" being published in IEEE Access (2017 JCR Impact Factor 3.557).
- IEEE Best Paper Award for the paper "Could Series and Parallel Compositions Improve on Hammocks?"
- UAE University Individual Research Grant COS/IRG-14/15, 31S196, Early Transcendental Analysis
- Supported by advisor's NSF grant 2004 - 2009.
- University of Missouri Department of Mathematics - Graduate Student Teaching Assistantship, 2004 - 2009.
- Attendance at several conferences supported by University of Missouri Department of Mathematics Graduate Student Travel Fund 2004 - 2009.
- British Council - Funding for visit to Universidad de Granada, Spain, 2002.
- Engineering and Physical Sciences Research Council - Graduate Student Grant, University of Wales, Swansea, UK, 1999 - 2003.
- Junior Foulks scholarship for undergraduate students, University of Wales, Swansea, UK, 1996.

COMPUTER SKILLS

- Coding in C
- The OpenGL API
- Coding in Mathematica.
- Coding in Visual Basic.
- Using Mathematica software to enhance teaching.

MEMBERSHIPS

- London Mathematical Society