

# Simon Cowell

## CURRICULUM VITAE

**Address:** Faculty of Exact Sciences,  
"Aurel Vlaicu" University of Arad,  
Arad,  
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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

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

- September 2017 – July 2019. Senior Research Fellow (post-doctoral level), Faculty of Exact Sciences,

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“Aurel Vlaicu” University of Arad, Romania.

- Computer Graphics
- 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, Lecturer

As Teaching Assistant:

- Calculus II Recitation
- 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.

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### AWARDS AND GRANTS

- 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 Mathematica.
- Coding in Visual Basic.
- Using Mathematica software to enhance teaching.

### MEMBERSHIPS

- London Mathematical Society