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PROFILE

Being an enthusiastic social individual with excellent communication skills, I am always interested in meeting new people, hearing new ideas and learning about different cultures. In addition to the passion I have for my subject area, I am hard-working and ambitious in the work- place. I am committed to any project I undertake and work well individually or as part of a team. I am not afraid to use my initiative or make decisions, I am versatile and will to take on challenges.

EDUCATION

2012-2015 Doctoral (Ph.D.) in Mathematics "Noncommutative Geometry", Swansea University, UK.

2010-2011 Master (MSc) in Mathematics and Computing for Finance (with distinction), Swansea University, UK.

1999 - 2003 Bachelor (BSc) in Mathematics (Excellent with honors), Jazan University, Kingdom of Saudi Arabia.

2004 - 2005 Diploma in Computer, Saudi Institute, Jazan, Kingdom of Saudi Arabia.

RESEARCH INTERESTS

Noncommutative Geometry.

Differential Geometry.

Probability.

HONORS AND AWARDS

2015/2016 Honoure List Saudi Cultural Bureau, London, United Kingdom.

20 January 2016 Best Research Paper awarded by the Global Science and Technology Forum, Singapore.

2010/2011 Best Overall MSc Student Award, Department of Mathematics, Swansea University, UK.

2015/2016 Honoured by the Royal Embassy of Saudi Arabia, Cultural Bureau, London, United Kingdom (Scientific Creativity and Award Winner).

2012-2015 A Postgraduate Research Skills Award, Development and Training Services, Swansea University, UK.

2016/2017 Honoured by Dean of the College of Science, Al-Imam Uni (Best Faculty Member Website Awarded).

ACHIEVEMENT REWARDS

March 2011 Achievement Reward with Congratulation Letter from Saudi Cultural Bureau in London, UK.

July 2011 Achievement Reward with Congratulation Letter from Saudi Cultural Bureau in London, UK.

December 2014 Achievement Reward with Congratulation Letter from Saudi Cultural Bureau in London, UK.

October 2015 Achievement Reward with Congratulation Letter from Saudi Cultural Bureau in London, UK.

January 2016 Achievement Reward with Congratulation Letter from Saudi Cultural Bureau in London, UK.

February 2016 Achievement Reward with Congratulation Letter from Saudi Cultural Bureau in London, UK.

March 2016 Achievement Reward with Congratulation Letter from Saudi Cultural Bureau in London, UK.

ASSOCIATION MEMBERSHIPS

Member of Postgraduate Studies Committee at College of Science, Al-Imam University (2017 - Present).

Member of Postgraduate Studies Committee at Mathematics Department, Al-Imam University (2017 - Present).

Member of Department of Mathematics Council, College of Science, Al-Imam University (2016 - Present).

Member of Research Centre at College of Science, Al-Imam Muhammad Ibn Saud University (2016 - Present).

Member of London Mathematical Society (LMS) (2015 - Present).

Member of American Mathematical Society (AMS) (2015 - Present).

Member of Saudi Association for Mathematical Sciences, King Saud University (SAMS) (2015 - Present).

Member of the Association for Women in Mathematics (AWM) (2015 - Present).

Member of European Women in Mathematics (EWM) (2015 - Present).

Member of the Bachelier Finance Society (Mathematical Finance) (BFS) (2014 - Present).

Member of the Investment and Finance Society, Swansea University, Swansea, United Kingdom (2015 - 2016).

Member of the Scientific Society for Saudi Students in the United Kingdom (SSSSUK) (2014 - Present).

Member of the UNICEF Society, Swansea University, Swansea, United Kingdom (2015 - 2016).

Member of the Islamic Society, Swansea University, Swansea, United Kingdom (ISOC) (2009 - 2016).

Member of the Saudi Society, Swansea University, Swansea, United Kingdom (2009 - 2016).

Member of the Saudi Club in Swansea, Saudi Culture Bureau in London, United Kingdom (2009 - 2016).

THESES

Alhamzi, G. (2015). Homotopy Deformation and It^o Calculus in Noncommutative Geometry, Unpublished Doctoral Thesis, Swansea University, United Kingdom.

Alhamzi, G. (2011). Stochastic Optimal Control and Portfolio Selection, Unpublished Masters Dissertation. Swansea University, United Kingdom.

PUBLISHED PAPERS

Alhamzi, G.Y., Beggs, E.J. & Neate, A.D. (in press) (2013) From Homotopy to It^o Calculus. arXiv:1307.3119.

CONFERENCE PAPERS

Alhamzi, G. (in press) (2016) $It^{\wedge}o$ Calculus on the Noncommutative Torus. *9th Saudi Students Conference*, February 13-14 2016, Birmingham, United Kingdom.

Alhamzi, G., Beggs, E., & Neate, A. (2016) Noncommutative Application of a Homotopy *Deformed Differential Graded Algebra with Its Hodge Theory*. *5th Annual International Conference on Computational Mathematics, Computational Geometry and Statistics*, January 18-19 2016, Singapore. Singapore: GSTF, 10.5176/2251-1911_CMCGS16.31.

CONFERENCE PRESENTATIONS

Alhamzi, G., & Beggs, E. (2016) Higher Dimensional $It^{\wedge}o$ Calculus in the Noncommutative Sphere Using Homotopy Deformation Poster presentation at: *second British Algebraic Geometry meeting (BrAG)*, April 13-15 2016, Edinburgh, United Kingdom.

Alhamzi, G. (2016) $It^{\wedge}o$ Calculus on the Noncommutative Torus. Paper presentation at: *9th Saudi Students Conference*, February 13-14 2016, Birmingham, United Kingdom.

Alhamzi, G., & Beggs, E. (2016) Noncommutative Application of a Homotopy Deformed Differential Graded Algebra with its Hodge Theory. Paper presentation at: *5th Annual International Conference On Computational Mathematics, Computational Geometry and Statistics*, January 18-19 2016, Singapore, Singapore.

Alhamzi, G. (2015) Homotopy Deformation and $It^{\wedge}o$ calculus. Poster presentation at: *6th PhD Experience Conference*, April 7-8 2016, Hull University, United Kingdom.

Alhamzi, G., Beggs, E., & Neate, A. (2015) From Homotopy to $It^{\wedge}o$ Calculus. Paper presentation at: *8th Saudi Students Conference*, January 31 February 1 2015, London, United Kingdom.

Alhamzi, G., Beggs, E., & Neate, A. (2014) From Homotopy to $It^{\wedge}o$ Calculus. Paper presentation at: *Conceptual and Technical Challenges for Quantum Gravity Conference*, September 8-12 2014, Sapienza University of Rome, Italy.

Alhamzi, G., Beggs, E., & Neate, A. (2014) From Homotopy to $It^{\wedge}o$ Calculus. Paper presentation at: *International Conference Estate Quantistica*, September 1-5 2014, Scalea, Italy.

CONFERENCE ATTENDANCE & WORKSHOPS

Categorical and Homological Methods in Hopf Algebras, LMS Regional Meeting & Workshop, Swansea University, United Kingdom, 16-19 December 2012.

Quantum Probabilistic Symmetries, LMS Midlands Regional Meeting & Workshop, Aberystwyth University, United Kingdom, 3-7 September 2012.

Modern Perspectives in Homotopy Theory: Infinity Categories, Infinity Operads and Homotopy Type Theory, Thematic mini-school, Swansea University, United Kingdom, 10-13 April 2012.

SHORT COURSES

Noncommutative Probability, Mathematics Department, Swansea University, United Kingdom, 26-27 September 2015.

Wolfram Technologies Workshop, Bristol and Bath Innovation Centre, Conference I, II & III, Bristol, United Kingdom, 18 February 2014.

Introduction to Noncommutative Probability, Mathematics Department, Swansea University, United Kingdom, 24-26 April 2013.

Metrics and Distances in Probability Theory, Mathematics Department, Swansea University, United Kingdom, 26-27 September 2012.

POSITIONS OF RESPONSIBILITY

Deputy Director of the Centre for Studies and Information, Al-Imam University.

President of the Student Activities Unit at College of Science, Al-Imam University (female Students).

Supervision of Graduate Studies and Scientific Research at College of Science, Al-Imam University (female Students).

Vice President of the Saudi Students Club in Swansea, United Kingdom. (2013/2014).

TEACHING EXPERIENCE

2016-Present Assistant Professor, Department of Mathematics, College of Science, Al-Imam University.

2013-2016 Lecturer, Department of Mathematics, College of Science, Al-Imam University.

2013-2014 Teaching Assistant in the Mathematics Department at Swansea University in the UK.

2011-2012 Saudi School, Swansea, United Kingdom.

2005-2008 Mathematics Teacher, Ministry of Education.

TRAINING COURSES IN EDUCATION DEVELOPMENT (AL-IMAM UNIVERSITY)

- Strategies for Activating University Education
- Classroom Management in University Halls
- Teaching Skills for Large Numbers
- Using Smartphones in University Teaching
- University Teaching Learning Program (UTL)
- The Achievement File and its Role in Raising the Level of Teaching Performance
- Prepare the Course Folder
- The Basics of Translation in Academic Field
- Databases Skills

RESEARCH SKILLS DEVELOPMENT COURSES

- Advanced Presentation Skills
- Advanced Reading and Note Making
- Avoiding Plagiarism
- Beyond Google
- Could you Start your own Business
- Creating the Vision and Taking the Leap
- Dealing with Difficult People

- Designing and Analysing Questionnaires
- Diversity Awareness
- Effective Database Searching
- Employability Skills
- EndNote
- Excel for Researchers
- Finding Employment Abroad
- Finishing the Thesis and Surviving the Viva
- Getting Published
- How to publish your First Book
- Inclusivity in university teaching
- Introduction to Archive Material
- Introduction to Quantitative Data
- Keep Writing, Overcome Writers Block
- Leadership for Researchers
- LATEX
- Managing your Supervisor
- Mind and Concept Mapping
- Motivation and the Thesis
- Making the Most of Conferences
- Media Engagement
- MATLAB
- N.Vivo 10
- Post Graduate Teaching Skills including sessions on General Teaching Skills & Small Group Teaching, Working in IT Labs
- PowerPoint for Academic Purposes
- Proof-reading and Editing your Writing
- Presentation Skills
- Poster presentations
- Raising your research Profile
- Report Writing
- Research Ethics
- Revising Grammar and Punctuation
- Running Successful Seminars
- R-Statistics
- SPSS - Day One
- SPSS - Day Two
- Structuring your Writing - Sentence to Paragraph
- Structuring your Writing; Paragraph to Thesis
- Study Skills and Learning Styles
- Stress Management
- Self and Collaborative Research: The Basics
- Teamwork for Researchers
- Time Management
- Tracing Thesis and Conference Papers
- Three Minute Thesis Training
- Understanding Cultural Differences
- Word 2010 for Thesis Writers
- Workplace Presentation Skills

- Writing and Giving Conference Papers
- Writing your Literature Review

PROFESSIONAL EXPERIENCE

Utilised Microsoft Word, Excel, Access and PowerPoint over a 10 years period. Gained Computer programming skills using Java and Visual Basic. Used Database Management skills via SQL.

OTHER RELEVANT SKILLS

Training Courses: Included Computer use and Applications, Database Management, Employability Skills, Professional Skills Development, English Language, Teaching Skills Development, SPSS, MATLAB, LATEX. ENDNOTE. -AMOS 22.0 Basic understanding of Structural Equation Modelling (SEM) and plan to further improve on this technique. -Arabic Native Language. -English Fluent. -Chinese Beginner.

ACKNOWLEDGEMENTS

- King Abdullah Scholarships Program.
- Al-Imam Muhammad Ibn Saud University.
- Royal Embassy of Saudi Arabia, Cultural Bureau, London, United Kingdom.
- Swansea University, United Kingdom.
- Dr. Edwin Beggs, PhD Supervisor, Swansea University.
- Dr. Andrew Neate, Master Supervisor, Swansea University.
- Professor Niels Jacob, Head of Department of Mathematics, Swansea University.