



CURRICULUM VITAE

Dr Mohamad Alghamdi

Associate Professor of Mathematics Department

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Current Position:

Associate professor in Mathematics, College of Science, The University of King Saud, Riyadh, Saudi Arabia

Qualifications:

Bachelor degree	College of Science (Mathematics department) University of King Saud Riyadh, Saudi Arabia
Master degree	College of Science (Mathematics department) University of Queensland Brisbane, Australia
Doctor of philosophy	College of Science (Mathematics department) University of Queensland Brisbane, Australia

Research Interest:

Applied Mathematics in Finance and Economics.

Languages:

Arabic

English

Teaching Experience:

2003 – 2007

Teaching Assistant
College of Science (Mathematics department)
University of King Saud

2014 – 2018

Assistant Professor
College of Science (Mathematics department)
University of King Saud

2018 –

Associate Professor
College of Science (Mathematics department)
University of King Saud

Publications:**❖ Published Papers:**

- M. Alghamdi. "Expenditure of Firms on R&D in Different Structural Markets". Journal of Business Economics and Finance, Vol. 5, Issue, 2, pp.191-205, August, 2016
- M. Alghamdi. "The Impact of the Density of Star R&D Networks on the Maximum Outcomes". International Journal of Current Multidisciplinary Studies, Vol. 2, Issue, 8, pp.394-401, August, 2016.
- M. Alghamdi. "Economic Returns in Forming stable networks". SpringerPlus (2016) 5:1570, 2016.
- M. Alghamdi. "The behaviour of maximum outcomes in symmetric R&D networks". Journal of informatic and mathematical science, Vol. 9, Issue, 1, pp.1-12, 2017.
- M. Alghamdi. "Maximum total welfare versus Growth of R&D networks". Journal of mathematics in industry, (2017) 7:11.
- M. Alghamdi. " Restricting R&D Networks for Maximum Outcomes". International Journal of Innovative Research in Science, Engineering and Technology, Vol 6, Issue 6, 2017.

- M. Alghamdi. "Different Strategies to Obtain Higher Outcomes". Journal of informatics and mathematical science, Vol. 9, Issue, 1, pp.161-180, 2017.
- M. Alghamdi. "Some Restrictions on R&D Networks". Journal of informatics and mathematical science, Vol. 11, Issue, 2, pp.99-113, 2019.
- Alghamdi, M. "Economics Performance under Endogenous Knowledge Spillovers". Asia-Pac Financ Markets (2020) 27:175–192. <https://doi.org/10.1007/s10690-019-09288-y>
- M. Alghamdi. " Individual and Social Incentives versus R&D Network Restriction". J. Korean Soc. Ind. Appl. Math. Vol.23, No.4, 329–350, 2019.
- M. Alghamdi. " Company Level Variables in R&D Cooperation Perspective". COMMUNICATIONS IN MATHEMATICS AND APPLICATIONS, Vol. 11, No. 1, pp.41-55, 2020.
- M. Alghamdi. " Central Positions in R&D Networks". Journal of informatics and mathematical science, Vol. 12, No. 1, pp.41-54, 2020.
- M. Alghamdi, S. McDonald, B. Pailthorpe. " The Impact of Product Differentiation on Symmetric R&D Networks". In D. Yeung, S. Luckraz & C. Leong (Eds.), *Frontiers in Games and Dynamic Games* (Vol. 16, pp.). Cham: Springer.
- M. Alghamdi. " Linking R&D Spillovers to Market Structure and its Impact on Equilibrium Results". COMMUNICATIONS IN MATHEMATICS AND APPLICATIONS, Vol. 11, No. 4, pp. 601–615, 2020.
- M. Alghamdi. " International R&D Partnerships between Companies". COMMUNICATIONS IN MATHEMATICS AND APPLICATIONS, accepted.

❖ **Paper Submitted and in Progress:**

- M. Alghamdi (2022) "Growth of small world vs Endogenous R&D spillover
- M. Alghamdi (2022) "Major Patterns in the Growth of R&D Partnerships between Worldwide Firms
- M. Alghamdi (2022) "Forming Stable R&D Networks in Different Market Structures
- M. Alghamdi (2022) "Growth of Stable R&D Networks under Bertrand Competition in Different Market Structures

Invited Seminars and Presentations:

- UECE Conference on Game Theory and Applications at University of ISEG/Technical, in Lisbon, Portugal. "The Effect of Connectivity, Proximity and Market Structure on R&D Networks". (Presented 04-11-2011)

- Society for the Advancement of Economic Theory (SAET) at the University of Queensland, in Brisbane, QLD Australia. ``The Effect of Connectivity, Proximity and Market Structure on R&D Networks". (Presented 02-07-2012)
- 14th International Schumpeter Society Conference (ISS) at the University of Queensland, in Brisbane, QLD Australia. ``The emergence of a Small World in a Network of research Joint Ventures". (Presented 03-07-2012)
- 4th World Congress of the Game Theory Society at University of Istanbul Bilgi, in Istanbul, Turkey. ``The Effect of Connectivity, Proximity and Market Structure on R&D Networks". (Presented 22-07-2012)
- Economics, Econometrics and Finance (EEF) Seminar at University of Groningen. "The effect of connectivity, proximity and market structure on R&D networks". (Presented 03-07-2013)
- The Association for Public Economic Theory (APET) in Catolica Lisbon, Portugal. ``The Effect of Connectivity, Proximity and Market Structure on R&D Networks". (Presented 07-07-2013)
- 16th Annual Conference of Public Economic Theory Association Conference (PET 15). "The Impact of Product Differentiation on Symmetric R&D Networks". (Presented 02-07-2015)
- International Conference on Equilibrium and Optimization Methodology in Finance and Economics ICEOMFE 2015. "Growth of Small World Networks versus Endogenous R&D Spillover Model". (Presented 09-11-2015)

❖ **Books in Progress**

- M. Alghamdi (2022) "Integral Calculus and Applications"
- M. Alghamdi (2022) "Cooperation in R&D under The Network Concept"

Computer Skills:

- Microsoft Office: Word, Excel, PowerPoint
- Programming languages: Matlab, Mathematica
- DATA Analysis, , Visualization, Presentation design

Committees and Participation:

- Member of the Committee of Financial and Actuarial Mathematics
- Member of the Vocational Training Committee
- Member of the polarization committee
- Member of the Applied Mathematics Committee
- Member of the Visiting Professors Committee

- Alumni committee member
- Rapporteur of the Committee on Exercise and Student Learning Support
- Member of the Science Technology Innovation Unit (STEM)

Training Course:

The new faculty program (36 training hours).