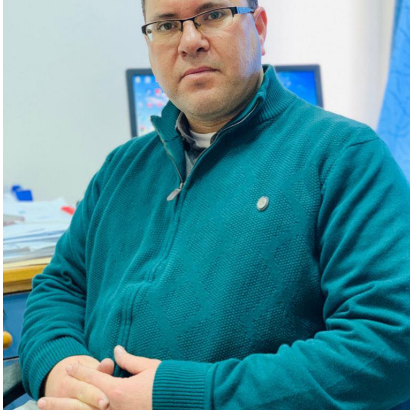


Adnan Daraghmeh

Resume

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Personal Information

- Date of Birth: Feb 20, 1978.
- Place of Birth: Tubas-Palestine
- Nationality: Palestinian
- Marital Status: Married
- Present address: Department of Mathematics, An-Najah National University

Academic Qualifications

- 2013-2016 **PhD of Applied Mathematics-Control Theory and Optimization**, *Department of Mathematics and Computer Science - Freie Universität Berlin, Berlin-Germany.*
Thesis Title: Model Order Reduction of Linear Control Systems: Comparison of Balance Truncation and Singular Perturbation Approximation with Application to Optimal Control .
Supervisors:
Prof. Dr. Carsten Hartmann, Freie Universität Berlin, BTU Cottbus-Senftenberg, Germany.
Prof. Dr. Naji Qatanani, An-Najah National University, Nablus, Palestine.
- 2001-2004 **M.Sc of Computational Mathematics**, *An-Najah National University, Palestine.*
- 1996-1999 **B.Sc of Mathematics**, *An-Najah National University, Palestine.*

Employment

- 2016–present **Assistant Professor**, *An-Najah National University, Nablus.*
- 2012–2013 **A Full – time lecturer** , *An-Najah National University, Nablus.*
- 2009–2012 **A Part – time lecturer** , *An-Najah National University, Nablus.*
- 2008–2009 **A Full – time lecturer**, *Al- Quds Open University, Tubas-Palestine.*
- 2005–2008 **A Part – time lecturer**, *Al- Quds Open University, Tubas-Palestine.*

2000–2008 **Teacher**, *Palestinian Ministry of Education And Higher Education*, Tubas-Palestine.

Teaching Experience

Courses:

- Undergraduate Courses: Numerical Analysis, Vector Analysis, Differential Equations, Applied Mathematics, Engineering Mathematics, Calculus, History of Mathematics, Discrete Mathematics, Applied Statistics, Probability.
- Graduate Courses: Numerical Linear Algebra, Special Topics, Numerical Analysis

Master Thesis supervision:

- Supervised over 8 M.Sc students in the field of applied mathematics and related topics

Master Thesis committee member:

- I was an internal examiner for:
 - Wala' Mohammad Draid, Numerical Techniques for Solving Integral Equations with Carleman Kernel. Supervisor: Prof.Dr Naji Qatanani. 2017
 - Aya Basem Saadeh, Numerical Methods for Solving Fractional Differential Equations and their Applications. Supervisor: Prof.Dr Naji Qatanani. 2018

Field of Research Interest

- Research interest in applied mathematics and numerical analysis with emphasis on:
 - Mathematical Control Theory.
 - Dynamical Programming.
 - Operations Research.
 - Applied Linear Programming.
 - Partial Differential Equations.
 - Integral Equations.

Certificate of attendance mathematical courses

- I attended the following courses during my PhD studies at Freie Universität Berlin from 11/2013 to 04/2016:
 - Introduction to Mathematical Control Theory (19126, FU Berlin)
 - Numerical Analysis (3236L636, TU Berlin)
 - Numerical Linear Algebra (3236L207, TU Berlin)
 - Numerical Partial Differential Equations (3236L251, TU Berlin)
 - Introduction to Operations Research (0830L040, TU Berlin)
 - Operations Research (108001, FU Berlin)
 - Applied Programming (12652, FU Berlin)

Conferences and Workshops

- E-learning course in Arab American University 2005-2006
- Palestinian Conference on Modern Trends in Mathematics and Physics II, August 2-4, 2010, An-Najah University, Nablus, Palestine.

- Fifth Palestinian Conference on Modern Trends in Mathematics and Physics , July 31st- August 2nd, 2016, The Arab American University, Jenin, Palestine.
- The 6th Annual Symposium on Education and New Learning Methodologies Efficient Ecosystems for Industry-Based Learning Models, September 8, 2018, An-Najah University, Nablus, Palestine.
- Symposium on “Simulation – based Sciences and Engineering”, 7 – 9 March 2019, Palestine Academy for Science and Technology, Palestine.

Awards

- Erasmus Mundus doctoral scholarship (Ph.D), Freie Universität Berlin, Institute of Mathematics and Computer Science, Berlin-Germany, September 2013 –July 2016.

Publications

- N. Qatanani and **A. Daraghmeh**, Asymptotic error analysis for the heat radiation boundary integral equation, European Journal of Mathematical Sciences, Vol.2, No.1, 2013, 51-61.
- **A. Daraghmeh**, N.Qatanani and C. Hartmann, Optimal control of linear systems with balanced reduced-order models: Perturbation approximations, Applied Mathematics and Computation 337 (2018) 119–136.
- N.Qatanani, **A. Daraghmeh**, A.SaadAldin, On The Numerical Simulation of Heat Conduction Problem, EPH - International Journal of Mathematics and Statistics, Vol.4, Issue 5, May 2018.
- **A. Daraghmeh** and N. Qatanani, Error Bound for Non-Zero Initial Condition Using the Singular Perturbation Approximation Method, Mathematics MDPI, Volume 6, 232,1-16, 2018.
- **A. Daraghmeh**, C. Hartmann and N.Qatanani, Balanced model reduction of linear systems with nonzero initial conditions: Singular perturbation approximation, Applied Mathematics and Computation 353 (2019) 295–307.
- **A. Daraghmeh**, An Optimal Control For A Homogeneous Linear Dynamical Systems, An - Najah Univ. J. Res.(N. Sc.) Vol. 33(1), 2019
- **A. Daraghmeh**, N. Qatanani ,Numerical error bound of optimal control for homogeneous linear systems , Archives of Control Sciences Volume 29(LXV), 2019 No. 2, pages 323–337
- Safa’ Hamdan, N. Qatanani and **A. Daraghmeh**, Numerical Techniques for Solving Linear Volterra Fractional Integral Equation,Hindawi, Journal of Applied Mathematics, Volume 2019, Article ID 5678103, 9 pages, <https://doi.org/10.1155/2019/5678103>.
- Ahmad Jalal, N. Qatanani and **A. Daraghmeh**, Approximation Techniques for Solving Linear Systems of Volterra Integro-Differential Equations, Hindawi, Journal of Applied Mathematics, Volume 2020, Article ID 2360487, 13 pages, <https://doi.org/10.1155/2020/2360487>.

- L. Ineirah, **A. Daraghme** and N. Qatanani, Iterative Techniques for Solving Positive Triangular Fully Fuzzy Linear System, European Journal of Scientific Research ISSN 1450-216X / 1450-202X Vol. 157 No 4 October, 2020, pp.450 - 467.
- **A. Daraghme**, N. Qatanani and A.Saadeh, Numerical Solution of Fractional Differential Equations, Applied Mathematics, 2020, 11, 1100-1115.

Professional Affiliation

- Member of the Palestinian Mathematics Olympiad Committee, 2017–present
- Reviewer referee for International Mathematical Journals
- 3 Papers for the (MDPI) journal of Applied Sciences in the period 2019–2020.
- 1 Paper for the (MDPI) journal of Applied Sciences in 2019.
- 2 Paper for the International Journal of Robust and Nonlinear Control in 2020.
- 3 Paper for the An-Najah University Journal for Research - A (Natural Sciences)
 - Member of many committees at Department of Mathematics, An-Najah University

Languages

Language 1 Arabic: Native
 Language 2 English: Very good
 Language 3 German: Good

Skills

- Computer skills, matlab, mathcad , SPSS
 - Writing in \LaTeX
- Strong communications and interpersonal skills.
- Ability to work in teams and independently.
- Self-disciplined with good time-management skills.

References

- Prof.Dr.Carsten Hartmann, Brandenburg University of Technology Cottbus–Senftenberg Brandenburgische, Cottbus-Germany.
 Email:carsten.hartmann@b-tu.de
 Freie Universität Berlin, Institute of Mathematics, Berlin-Germany.
 Email:chartman@mi.fu-berlin.de
- Prof.Dr.Naji Qatanani, Department of Mathematics, An-Najah National University, Nablus-Palestine.
 Email: nqatanani@najah.edu