

CURRICULUM VITAE

BAHA ALZALG

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January 15, 2019

PERSONAL INFORMATION

- FULL NAME: Baha Mahmoud Nahar Alzalg.
- PLACE AND DATE OF BIRTH: Ajloun – Jordan; October 1982.
- CITIZENSHIP AND RESIDENCY: Jordanian; United States (Rochester, NY).
- GENDER AND MARITAL STATUS: Male; Married (with one daughter and one son).

EDUCATION

- 2011: Ph.D. in Mathematics, Washington State University, Pullman, Washington, USA.
Specialization: Mathematical Optimization; Advisor: K. A. Ariyawansa.
Dissertation title: *Optimization over symmetric cones under uncertainty*.
Funded by U.S. Army Research Office under Award No. W911NF-08-1-0530
- 2007: M.Sc. in Mathematics, Yarmouk University, Irbid, Jordan.
Specialization: Logic; Advisor: Mohammad Shakhathreh.
Thesis title: *Fuzzy logic and its applications*.
- 2005: B.Sc. in Mathematics, Yarmouk University, Irbid, Jordan.

ACADEMIC POSITIONS

- 2016-2019: Associate Professor, Department of Mathematics, The University of Jordan, Amman, Jordan.
- 2013-2016: Assistant Professor, Department of Mathematics, The University of Jordan, Amman, Jordan.
- 2012: Postdoctoral Research Associate, Department of Electrical and Computer Engineering, University of California, Davis, CA.
- 2010-2011: Research and Teaching Assistant, Department of Mathematics, Washington State University, Pullman, WA.
- 2009: Teaching Assistant, Department of Mathematical Sciences, University of Wisconsin, Milwaukee, WI.
- 2007-2008: Adjunct Instructor, Mathematics Departments at Yarmouk University and Jordan University of Science and Technology, Irbid, Jordan.

VISITING POSITIONS

- Aug. 2018 - Aug. 2019: Visiting Scholar/Courtesy Associate Professor, School of Mathematical Sciences, Rochester Institute of Technology, Rochester, NY.
- Aug. & Sept. 2012: Visiting Assistant Professor, Department of Mathematics, University of Colorado, Denver, CO.

ADMINISTRATIVE POSITIONS

- 2016-2018: Head of Mathematics Department¹, College of Science, The University of Jordan.
- 2013/2014: Representative of Math. Dept. to the College of Science Board, The University of Jordan.

¹Mathematics Department at The University of Jordan is the only PhD-granting mathematics department in Jordan. There are 37 full-time faculty members in the department (among them there are 16 Full Professors) specialized in the different areas of Mathematics.

RESEARCH INTERESTS**Main Interests**

Optimization theory and algorithms
 Jordan algebras and applications
 Interior point methods
 Cone and semidefinite programming
 Convex optimization
 Stochastic programming
 Optimization in abstract spaces
 Analysis of algorithms
 Computational and complexity analysis

Other Interests

Mathematical modeling
 Graph theory (Ramsey number)
 Network topology
 Combinatorial mathematics
 Discrete and finite mathematics
 Fuzzy mathematics
 Numerical methods
 Fractional ODEs
 Theoretical computer science

PUBLICATIONS• **Refereed Journal Publications²:**

- 1 **Baha Alzalg**. A primal-dual interior-point method based on various selections of displacement step for symmetric optimization. Accepted in *Computational Optimization and Applications*. DOI: 10.1007/s10589-018-0045-8 (2018) **ISI (IF: 1.413)**.
- 2 **Baha Alzalg**, Khaled Badarneh, Ayat Ababneh. Infeasible Interior-Point Algorithms for Stochastic Second-order Cone Optimization. Accepted in *Journal of Optimization Theory and Applications*. DOI: 10.1007/s10957-018-1445-8 (2018) **ISI (IF: 1.509)**.
- 3 **Baha Alzalg**. Primal interior-point decomposition algorithms for two-stage stochastic extended second-order cone programming. *Optimization*. 67(12), 2291–2323 (2018) **ISI (IF: 1.170)**.
- 4 **Baha Alzalg**, Mohammad Alabed Alhadi. Stochastic second-order cone programming: The equivalent convex program. *Applied Mathematics & Information Sciences*. 12(3), 1-6 (2018).
- 5 **Baha Alzalg**, Mohammad Pirhaji. Elliptic cone optimization and primal-dual path-following algorithms. *Optimization*. 66(12), 2245-2274 (2017) **ISI (IF: 1.170)**.
- 6 **Baha Alzalg**, Mohammad Pirhaji. Primal-dual path-following algorithms for circular programming. *Communications in Combinatorics and Optimization*. 2(2), 65-85 (2017).
- 7 **Baha Alzalg**. The Jordan algebraic structure of the circular cone. *Operators and Matrices*. 11(1), 1–21 (2017) **ISI (IF: 0.583)**.
- 8 Vedat Erturk, Gul Zaman, **Baha Alzalg**, Anwar Zeb, Shaher Momani. Comparing two numerical methods for approximating a new giving up smoking model with fractional order derivative. *Iranian Journal of Science and Technology (Transaction A)*. 41(3), 569-575 (2017) **ISI (IF: 0.34)**.
- 9 **Baha Alzalg**. The algebraic structure of the arbitrary-order cone. *Journal of Optimization Theory & Applications*. 169(1), 32–49 (2016). **ISI (IF: 1.509)**.
- 10 **Baha Alzalg**, Francesca Maggiono, Sebastiano Vitali. Homogeneous self-dual methods for symmetric cones under uncertainty. *Far East Journal of Mathematical Sciences*. 99(11) 1603–1778 (2016).
- 11 Anwar Zeb, Gul Zaman, Vedat Suat ERTURK, **Baha Alzalg**, Faisal Yousafzai and Madad Khan. Approximating a giving up smoking dynamic on adolescent nicotine dependence in fractional order. *PLoS ONE*. 11(4)(2016).
- 12 **Baha Alzalg**. Volumetric barrier decomposition algorithms for stochastic quadratic second-order cone programming. *Applied Mathematics & Computation*. 256, 494–508 (2015) **ISI (IF: 1.600)**.
- 13 **Baha Alzalg**. Decomposition-based interior point methods for stochastic quadratic second-order cone programming. *Applied Mathematics & Computation*. 249, 1–18 (2014) **ISI (IF: 1.600)**.
- 14 **Baha Alzalg**. Homogeneous self-dual algorithms for stochastic second-order cone programming. *Journal of Optimization Theory & Applications*. 163(1), 148–164 (2014) **ISI (IF: 1.509)**.
- 15 **Baha Alzalg**, K. A. Ariyawansa. Logarithmic barrier decomposition-based interior point methods for stochastic symmetric programming. *Journal of Mathematical Analysis and Applications*. 409, 973–995 (2014) **ISI (IF: 1.119)**.
- 16 **Baha Alzalg**. Stochastic second-order cone programming: Application models. *Applied Mathematical Modelling*. 36, 5122–5134 (2012) **ISI (IF: 2.158)**.

²ISI means that the journal is listed in Thomson Reuters ISI Web of Knowledge, and the Acronym IF stands for the impact factor for the journal according to the most recent released journal ISI citation report.

17. M. Jaradat, **Baha Alzalg**. Cycle-complete graph Ramsey numbers $r(C_4, K_9), r(C_5, K_8) \leq 33$. *International Journal of Mathematical Combinatorics*. 1, 42–45 (2009).
 18. M. Jaradat, **Baha Alzalg**. The cycle-complete graph Ramsey number $r(C_6, K_8) \leq 38$. *SUT Journal of Mathematics*. 44(2), 257–263 (2008) **ISI (IF: 0.355)**.
 19. M. Jaradat, **Baha Alzalg**. The cycle-complete graph Ramsey number $r(C_8, K_8)$. *SUT Journal of Mathematics*. 43(1), 85–98 (2007) **ISI (IF: 0.355)**.
- **Conference Publications:**
 20. **Baha Alzalg**. Optimal search in a multi-component hypothesis testing. *Proc. 3rd Annual Int. Conf. Oper. Res. Stat.* 115–121 (2013).
 21. **Baha Alzalg**, C. Anghel, W. Gan, Q. Huang, M. Rahman, A. Shum, C. Wah Wu. Contingency constrained optimal power flow solutions in complex network power grids. *Proc. IEEE Int. Symp. Circuits Systems*. 1636–1639 (2012).
 22. **Baha Alzalg**, K. A. Ariyawansa. Stochastic mixed integer second-order cone programming: A new modeling tool for stochastic mixed integer optimization. *Proc. Int. Conf. Scientific Computing*. 315–321 (2011).

GRADUATE STUDENT ADVISEES

- **Doctoral Student Advisees:**
 1. Mohammed Naser Abdelhadi. The University of Jordan, Feb. 2017 – June 2018.
Dissertation Title: *Optimization over nonsymmetric cones under uncertainty*.
- **Master's Student Advisees:**
 2. Khaled Badarneh, The University of Jordan, Aug. 2015 – Aug. 2016.
 3. Arwa Jebrel, The University of Jordan, Aug. 2015 – May 2017.

CONFERENCE PRESENTATIONS

- *Decomposition-based interior-point methods for stochastic nonsymmetric conic optimization problems*. Presentation at the 2nd European Conference on Stochastic Optimization. **Rome, Italy**, 20–22 Sept. 2017.
- *The circular cone: A new paradigm for symmetric cones*. Presentation at the 5th Int'l Conf. Matrix Analysis and Applications. **Fort Lauderdale, Florida**, 17–20 Dec. 2015.
- *Stochastic second-order cone programming: Applications and algorithms*. Presentation at the Operational Research Practice in Africa Conference. **Algiers, Algeria**, 20–22 Apr. 2015.
- *Optimal search in a multi-component hypothesis testing*. Presentation at the Annual Int'l Conference Operations Research and Statistics. **Singapore**, 22–24 Apr. 2013.
- *A comp. analysis of the optimal power flow problem*. Presentation at the IEEE Int'l Symp. on Circuits and Systems. **Seoul, South Korea**, 20–23 May 2012.
- *On recent trends in stochastic conic optimization*. Presentation at the 2011 INFORMS Ann. Meeting (Invited). **Charlotte, North Carolina**, 13–16 Nov. 2011.
- *The Optimal power flow prob.: Network topology*. Presentation on Mathematical Modeling in Industry XV, IMA. **Minneapolis, Minnesota**, 7–12 Aug. 2011.
- *Stochastic symmetric programs over integers*. Presentation at the 2011 Int'l Conf. on Scientific Comp. (Invited), **Las Vegas, Nevada**. 18–21 July 2011.
- *Chance-Constrained Second-Order Cone Programming*. Presentation at the Young Operational Research Conference. **Nottingham, England**, 4–7 Apr. 2011.
- *Stochastic Mixed Integer Second-Order Cone Programming*. Presentation at the 2nd Int'l Conference on Numerical Analysis and Optimization. **Muscat, Oman**, 3–6 Jan. 2011.
- *Stochastic Second-Order Cone Programming: A Definition*. Presentation at the 12th Int'l Conference on Stochastic Programming. **Halifax, Canada**, 16–20 Aug. 2010.
- *An Introduction to Stochastic Semidefinite Programs*. Presentation at the Int'l Conference on Continuous Optimization. **Santiago, Chile**, 26–29 July 2010.

PRESENTATIONS IN SEMINARS

- RIT Math Seminar, Rochester Institute of Technology, **Rochester, New York**, 5 February 2018.
Talk title: *Second-Order Cone Programming and Beyond*.
- Applied Math Seminar, University of Tabouk, **Tabuk, KSA**, 1 June 2015.
Talk title: *Recent Developments in Stochastic Symmetric Programming*.
- Mathematics Seminar, The University of Jordan, **Amman, Jordan**, 12 Dec. 2012.
Talk title: *Some Applications of Stochastic Conic Programs*.
- OR Seminar, University of Colorado, **Denver, Colorado**, 25 Sept. 2012.
Talk title: *An Introduction to Stochastic Conic Programs*.
- UC Davis Electrical Engineering Seminar, **Davis, California**, 9 Sept. 2011.
Talk title: *On Cycle-Complete graphs Ramsey Numbers*.
- OR Seminar, Naval Postgraduate School, **Monterey, California**, 1 Sept. 2011.
Talk title: *Stochastic Symmetric Optimization*.
- Mathematical Modeling in Industry XV, IMA, **Minneapolis, Minnesota**, 8 Aug. 2011.
Talk title: *The Optimal power flow problem: Contingency constraints*.
- WSU Mathematics Colloquium, **Pullman, Washington**, 24 Feb. 2011.
Talk title: *From Linear Programming to Multi-Order Cone Programming*.

WORKSHOPS AND SUMMER SCHOOLS

- Junior Geometry and Topology in the Midwest.
October 13, 2018 @ University of Wisconsin, Madison, Wisconsin.
- The Mathematics and the Microbiome Workshop.
October 10–11, 2018 @ The Ohio State University, Columbus, Ohio.
- First Meeting of National Qualifications Frameworks for Jordanian Higher Education.
March 22, 2017 @ Prince Sumaya University for Technology, Amman, Jordan.
- Opening up Education in South-Mediterranean Countries (OpenMed).
February 23, 2017 @ Prince Sumaya University for Technology, Amman, Jordan.
- Workshop on Learning Outcomes within Professional Higher Education.
November 14–15, 2016 @ The University of Jordan, Amman, Jordan.
- Workshop on Designing Academic Programs, Delivery Mechanisms and Evaluation.
November 20–21, 2016 @ The Association of Arab Universities, Amman, Jordan.
- International Day for the Total Elimination of Nuclear Weapons.
September 27, 2016 @ The University of Jordan, Amman, Jordan.
- Workshop on Teaching & Developing a Confident Work Environment.
September 2013 @ University of Jordan, Amman, Jordan.
- The Essentials of Teaching and Learning Workshop.
August 2012 @ University of Colorado Denver, Colorado.
- Adv. in Scientific Computing, Imaging Sc. & Optimization.
April 2012 @ University of California Los Angeles, California.
- Mathematical Modeling in Industry XV, A 10–day Workshop for PhD Students.
August 2011 @ University of Minnesota in IMA, Minneapolis, Minnesota.
- A graduate level workshop titled "Operations research in sport".
April 2011 @ University of Nottingham, United Kingdom.
- A PhD level workshop on stochastic programming.
August 2010 @ Dalhousie University, Nova Scotia, Canada.
- A School on Continuous Optimization for young researchers.
July 2010 @ Universidad de Chile, Santiago, Chile.

FUNDED RESEARCH PROJECTS

- **Interior-point methods for stochastic nonsymmetric optimization** (PI: Baha Alzalg); JOD7200. Funded by Deanship of Scientific Research at Univ. of Jordan (Award No. 2017-2016/34). Apr. 2017 – May 2018.
- **Optimizing power generation and delivery in smart electrical grids** (PI: Chai Wu, IBM Research). IMA, University of Minnesota, Aug. 2011 (participants selected based on application) Project description available at: <https://www.ima.umn.edu/2010-2011/MM8.3-12.11>.

TEACHING EXPERIENCE

I have taught mathematics courses in the period from 2008 till 2018 at seven academic institutions in Washington, Wisconsin, Colorado, Jordan and Kingdom of Saudi Arabia. This gave me a great opportunity to work with students of different backgrounds, different cultures, different language skills, etc. Below is a list of courses that I have taught. Responsibilities in all of these course included all aspects of teaching the course, including developing course materials/syllabus, creating specific assignments, preparing slide lectures, writing and administering exams, performing classroom instruction, lecturing, and grading. In addition, we also include the courses' webpages in which you will find information and material related to each course such as course description, detailed course syllabus, textbook, references, selected lecture slides, sample exams with keys, homework assignments with solutions, handouts, etc. My teaching page is here: <http://sites.ju.edu.jo/sites/alzalg/pages/teaching>

| INSTITUTION AND LOCATION | COURSES TAUGHT | SEMESTER |
|---|--|---|
| The University of Jordan Amman, Jordan | 0301973: Integer & Comb. Optimization (Graduate) Course webpage: sites.ju.edu.jo/sites/alzalg/pages/973.aspx | Spring 2018 |
| | 0301972: Modern Convex Optimization (Graduate) Course webpage: sites.ju.edu.jo/sites/alzalg/pages/972.aspx | Fall 2017 |
| | 0301981: Special Topics in Mathematics (Graduate) Course webpage: sites.ju.edu.jo/sites/alzalg/pages/981.aspx | Spring 2017 |
| | 0301472: Numerical Methods (U-Graduate) Course webpage: sites.ju.edu.jo/sites/alzalg/pages/472.aspx | Fall 2016 |
| | 0301471: Methods in Applied Math (U-Graduate) | Sum. 2015 |
| | 0301371: Linear Optimization (U-Graduate) Course webpage: sites.ju.edu.jo/sites/alzalg/pages/371.aspx | Fall 2015 |
| | 0301212: Real Analysis (U-Graduate) Course webpage: sites.ju.edu.jo/sites/alzalg/pages/212.aspx | Fall 2015 |
| | 0301221: Ordinary Differential Eqs I (U-Graduate) Course webpage: sites.ju.edu.jo/sites/alzalg/pages/221.aspx | Fall 2014 |
| | 0301302: Engineering Math II (U-Graduate) Course webpage: sites.ju.edu.jo/sites/alzalg/pages/302.aspx | Spring 2014 |
| | 0301202: Engineering Math I (U-Graduate) Course webpage: sites.ju.edu.jo/sites/alzalg/pages/202.aspx | Fall 2013 |
| | 0301102: Calculus II (U-Graduate) Course webpage: sites.ju.edu.jo/sites/alzalg/pages/102.aspx | Fall 2013 |
| | 0301101: Calculus I (U-Graduate) Course webpage: sites.ju.edu.jo/sites/alzalg/pages/101.aspx | Spring 2013 |
| | University of Colorado Denver, CO, USA | Math 3301: Intro to Operations Research I (U-Graduate) Math 2411: Calculus II (U-Graduate) |
| Washington State University Pullman, WA, USA | Math 201: Finite Mathematics for Business (U-Graduate) Math 140: Mathematics for Life Scientists (U-Graduate) | Sum. 2010 Spring 2010 |
| University of Wisconsin Milwaukee, WI, USA | Math 231: Calculus & Analytic Geometry (U-Graduate) | Fall 2009 |
| University of Tabuk Tabuk, KSA | Math 241: Linear Algebra (U-Graduate) Math 204: Differential Equations (U-Graduate) | Spring 2015 Spring 2015 |
| Princess Sumaya Univ. Tech. Amman, Jordan | Math 102: Calculus II (U-Graduate) | Sum. 2013 |
| Yarmouk University Irbid, Jordan | Math 102: Calculus II (U-Graduate) Math 101: Calculus I (U-Graduate) | Fall 2008 Sum. 2008 |
| Jordan Univ. of Science Tech. Irbid, Jordan | Math 102: Calculus II (U-Graduate) Math 101: Calculus I (U-Graduate) | Spring 2008 Fall 2007 |

COMMITTEE MEMBERSHIPS IN THE UNIVERSITY OF JORDAN

- **At Departmental Level:**
 1. Chair of the Graduate Studies Committee in Mathematics Department, 2016/2017, 2017/2018.
 2. Chair of the Doctoral Qualifying Exam Committee, 2016/2017, 2017/2018.
 3. Member of the Departmental Social Committee, 2017/2018.
 4. Member of the Scientific Research Committee, 2014/2015, 2015/2016.
 5. Member of the Study Plan Committee, 2014/2015, 2015/2016.
 6. Member of the Conference Committee, 2015/2016.
 7. Member of the the Screening/Interviewing Committee for Math Position, 2014/2015.
 8. Member of the Student Union Election Committee, 2012/2013 and 2013/2014.
- **At College Level:**
 9. Member of the Graduate Studies Committee in the College of Science, 2016/2017, 2017/2018.
 10. Member of the Curriculum Committee in the College of Science, 2016/2017, 2017/2018.
 11. Member of the Planning, Design, and Construction Committee for a New Mathematics Building, 2015/2016.
 12. Member of the College's Safety and Emergency Response Committee, 2014/2015.
 13. Member of the Social and Sport Committee, 2015/2016.
- **At University Level:**
 14. Member of the Committee for Conversion of CGPA into equivalent 4.0-scale University letter grades for the purpose of admission to graduate programs, May 2017–Aug. 2018.
 15. Member of the Committee for Quality Assurance and Development Affairs in the School of Science, Nov. 2016–Aug. 2018.

HONORS AND AWARDS

1. Listed in *Who's Who in Sciences Higher Education*, AcademicKeys (2013).
 2. **Sidney G. and Evelyn Hacker Graduate Research Award**; a highly competitive award given each year to one individual in honor of his exceptional research contribution, Washington State University (2011).
 3. **Chancellor's graduate students award**; a competitive award given based on application to recruit and retain the "best and the brightest" graduate students, University of Wisconsin—Milwaukee (2009).
 4. **First class honors in Mathematics**, M.Sc. degree, Yarmouk University, Irbid, Jordan (2007).
 5. **Dean's list of excellence for Outstanding Academic Records**, Yarmouk University, Jordan (2003–2005).
 6. **Royal Hashemite Diwan Scholarship**, B.Sc. degree, Yarmouk University, Jordan (2001–2005).
- **OTHER AWARDS:**
 7. **A One-Year Scientific Visit Award to RIT**; funded by The University of Jordan, Amman (2018/2019).
 8. **Postdoctoral Scholarship in Electrical Engineering**; funded by Army Research Lab and BBN Technologies, The University of California, Davis (2012).
 9. **Research assistantship with full tuition waiver and stipend**; supported by my advisor's grant comes from the United States Army Research Office under Award W911NF-08-1-0530 (2010–2011).
 10. **Two teaching assistantships with tuition waiver and stipend**; awarded by Washington State University (Spring and Summer 2010) and University of Wisconsin—Milwaukee (Fall 2009).
 11. **Many travel and accommodation awards**; to present papers in international conferences and workshops.

RESEARCH PROFILES AT ACADEMIC NETWORKS AND UNIVERSAL IDENTIFIERS

- **On Scopus:** <http://www.scopus.com/authid/detail.url?authorId=55053569300>
- **On Google Scholar:** <http://scholar.google.com/citations?user=ij9bAXYAAAAJ>
- **On Research Gate:** https://www.researchgate.net/profile/Baha_Alzalg3
- **On MathSciNet:** <https://mathscinet.ams.org/mathscinet/MRAuthorID/984491>
- **On ORCID:** Available at <https://orcid.org/0000-0002-1839-8083>

PROFESSIONAL ACTIVITIES

- **Editorial Board Membership:** Editorial board member of the international journals:
 1. Journal of Applied Mathematics and Statistics (2018–present).
 2. Computer Simulation in Application (2018–present).
- **Journal Peer Reviewer:** I have served as a peer reviewer to some international journals:
 1. Mathematical Reviews (MathSciNet), American Mathematical Society.
 2. Journal of Optimization Theory and Applications, Springer.
 3. Journal of Computational and Applied Mathematics, Elsevier.
 4. International Journal of Applied and Computational Mathematics, Springer.
 5. Journal of Supercomputing, Springer.
 6. Arabian Journal of Mathematics, Springer.
 7. Applied Mathematics & Information Sciences.
- **Consultant in Designing Academic Programs:** I hold a professional certificate, as a consultant, from the Association of Arab Universities in designing academic programs.
- **Session Chair:** I organized a session and delivered invited presentations for the Stochastic Programming area of Optimization Society at the 2011 INFORMS Annual Meeting, 13–16 Nov. 2011, Charlotte, NC.
- **ICFDA/2018 Organizing Committee Member:** Member of the local organizing committee for The International Conference on Fractional Differentiation and its Applications, 16-18 July 2018, Jordan.
- **Advisory Committee Member and External Examiner:** Served as a committee member and an external examiner in some M.Sc. thesis defenses at The University of Jordan and Jordan University of Science and Technology.

CURRENT AND PAST ASSOCIATION MEMBERSHIPS

- Mathematical Optimization Society.
- American Mathematical Society.
- Mathematical Association of America.
- Institute of Operations Research and the Management Sciences (INFORMS).
- Society for Industrial and Applied Mathematics (SIAM) [Activity groups: Optimization, Computation].
- The Operational Research Society.
- New York Academy of Sciences.
- Association for Computing Machinery.
- Jordan Society for Scientific Research.
- Jordan Computer Society.
- The Jordanian Society for Desertification Control and Badia Development.
- Jordanian Society for Sensory Evaluation of Food.

GOVERNMENTAL VISITS

I conducted several governmental visits to the Kingdom of Saudi Arabia in the second semester of the academic year 2014/2015 and particularly to The University of Tabuk based on agreement between it and The University of Jordan for the purpose of improving, supporting and upgrading different aspects of the quality of work (especially teaching and research) in Mathematics Department at University of Tabuk.

PROFESSIONAL AND ANALYTICAL SKILLS

- Strong verbal and written presentation skills.
- Ability to understand and master new concepts quickly.
- Ability to prioritize multiple objectives in a dynamic environment with constantly shifting priorities.
- Initiative, drive and confidence to achieve results without explicit direction or detailed instruction.
- Ability to create problem solving strategies.
- Ability to break down ambiguous issues into actionable insights.

COMPUTER SKILLS

- Experience with Optimization/Simulation software such as AMPL, CPLEX, MOSEK, SDPT3, SeDuMi.
- Comfortable with C, C++, MATLAB, MAPLE.
- Familiarity with Unix/Linux, Windows, L^AT_EX.
- Professionalism in HTML programming and web designing.

REFERENCES

Fuad Kittaneh

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Libby Knott (Teaching Reference)

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