

---

## CURRICULUM VITAE OF BAHA M. ALZALG

---

¶ The University of Jordan, Department of Mathematics  
🏠 Queen Rania Street, Amman, The Hashemite Kingdom of Jordan 11942  
🌐 <http://sites.ju.edu.jo/sites/alzalg>  
✉ [b.alzalg@ju.edu.jo](mailto:b.alzalg@ju.edu.jo)  
☎ +962 6-535-5000 Ext. 22086

---

### EDUCATION

- 2012:** Post-Doctorate in Optimization, ECE, University of California, Davis, CA.  
Postdoc Sponsored by the U.S. Army Research Lab and BBN Technologies, Grant 3-QZC1011
- 2011:** Ph.D. in Mathematics, Washington State University, Pullman, WA.  
Area of study: Mathematical Optimization. Advisor: Prof. K. Ariyawansa.  
Dissertation title: *Optimization over symmetric cones under uncertainty*.  
Doctorate Funded by the U.S. Army Research Office under Award No. W911NF-08-1-0530
- 2007:** M.Sc. in Mathematics, Yarmouk University, Jordan.  
Area of study: Mathematical Logic. Advisor: Prof. M. Shakhatreh.  
Thesis title: *Fuzzy logic and its applications*.
- 2005:** B.Sc. in Mathematics, Yarmouk University, Jordan.

### RESEARCH INTERESTS

Mathematical Optimization, Interior-Point Methods, Barrier Methods, Convex Programming, Cone and Semidefinite Programming, Stochastic Programming, Semi-Infinite Programming, Programming in Abstract Spaces, Algorithmic Theory, Computational and Complexity Analysis, Theoretical Computer Science.

### ACADEMIC POSITIONS

- The Ohio State University, Visiting Associate Professor (2019–present), OSU Department of Computer Science and Engineering, Columbus, OH.
- The University of Jordan, Associate Professor (2016–present), Assistant Professor (2013–2016), UJ Department of Mathematics, Amman, Jordan.
- Rochester Institute of Technology, Senior Research Scholar (2018/2019), RIT School of Mathematical Sciences, Rochester, NY.
- University of Tabuk, Visiting Assistant Professor (Spring 2015), UT Mathematics Dept., Tabuk, KSA.
- University of Colorado Denver, Visiting Assistant Professor (Fall 2012), CUD Department of Mathematical and Statistical Sciences, Denver, CO.
- University of California Davis, Postdoctoral Research Associate (2011/2012), UCD Department of Electrical and Computer Engineering, Davis, CA.
- Washington State University, Research Assistant (2010/2011), Teaching Assistant (2009/2010), WSU Department of Mathematics, Pullman, WA.
- University of Wisconsin Milwaukee, Graduate Teaching Assistant (Fall 2009), UWM Department of Mathematical Sciences, Milwaukee, WI.
- Yarmouk University, Adjunct Lecturer (2008), YU Department of Mathematics, Irbid, Jordan.
- Jordan University of Science and Technology, Adjunct Lecturer (2007), JUST Department of Mathematics and Statistics, Irbid, Jordan.

### ADMINISTRATIVE POSITIONS

- Head of Mathematics Department<sup>1</sup> (2016–2018), College of Science, The University of Jordan.
- Representative of Mathematics Dept (2013/2014), College of Science Board, The University of Jordan.

---

<sup>1</sup>Mathematics 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.

**PUBLICATIONS**• **Publications in Refereed Journals<sup>2</sup>:**

25. **Baha Alzalg.** Logarithmic-barrier decomposition interior-point methods for stochastic linear optimization in a Hilbert space. Accepted in *Numerical Functional Analysis and Optimization*. DOI: 10.1080/01630563.2019.1709499 (2020) **ISI (IF: 0.827)**.
24. **Baha Alzalg, Asma Gafour, Lewa Alzaleq.** Volumetric barrier cutting plane algorithms for stochastic linear semi-infinite optimization. Accepted in *IEEE Access*. DOI: 10.1109/ACCESS.2019.2962840 (2020) **ISI (IF: 4.098)**.
23. **Baha Alzalg.** A logarithmic barrier interior-point method based on majorant functions for second-order cone programming. Accepted in *Optimization Letters*. DOI: 10.1007/s11590-019-01404-1 (2019) **ISI (IF: 1.013)**.
22. **Baha Alzalg.** A primal-dual interior-point method based on various selections of displacement step for symmetric optimization. *Computational Optimization and Applications*. 72(2), 363–390 (2019). **ISI (IF: 1.413)**.
21. **Baha Alzalg, Khaled Badarneh, Ayat Ababneh.** Infeasible Interior-Point Algorithms for Stochastic Second-order Cone Optimization. *Journal of Optimization Theory & Applications* 181(1), 324–346 (2019). **ISI (IF: 1.509)**.
20. **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)**.
19. **Mohammad Alabed Alhadi, Baha Alzalg.** Stochastic second-order cone programming: The equivalent convex program. *Applied Mathematics & Information Sciences*. 12(3), 1-6 (2018).
18. **Baha Alzalg, Mohammad Pirhaji.** Elliptic cone optimization and primal-dual path-following algorithms. *Optimization*. 66(12), 2245-2274 (2017) **ISI (IF: 1.170)**.
17. **Baha Alzalg.** The Jordan algebraic structure of the circular cone. *Operators and Matrices*. 11(1), 1–21 (2017) **ISI (IF: 0.583)**.
16. **Baha Alzalg, Mohammad Pirhaji.** Primal-dual path-following algorithms for circular programming. *Communications in Combinatorics and Optimization*. 2(2), 65-85 (2017).
15. **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)**.
14. **Anwar Zeb, Gul Zaman, Vedat Saat 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).
13. **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).
12. **Baha Alzalg.** The algebraic structure of the arbitrary-order cone. *Journal of Optimization Theory & Applications*. 169(1), 32–49 (2016). **ISI (IF: 1.509)**.
11. **Baha Alzalg.** Volumetric barrier decomposition algorithms for stochastic quadratic second-order cone programming. *Applied Mathematics & Computation*. 256, 494–508 (2015) **ISI (IF: 1.600)**.
10. **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)**.
9. **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)**.
8. **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)**.
7. **Baha Alzalg.** Stochastic second-order cone programming: Application models. *Applied Mathematical Modelling*. 36, 5122–5134 (2012) **ISI (IF: 2.158)**.
6. **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).
5. **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)**.

<sup>2</sup>ISI 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.

4. 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)**.

• **Publications in Refereed Proceedings:**

3. **Baha Alzalg**. Optimal search in a multi-component hypothesis testing. *Proc. 3<sup>rd</sup> Annual Int. Conf. Oper. Res. Stat.* 115–121 (2013).
2. **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).
1. **Baha Alzalg**, K. Ariyawansa. Stochastic mixed integer second-order cone programming: A new modeling tool for stochastic mixed integer optimization. *Proc. Int. Conf. Sc. Comp.* 315-321 (2011).

• **Papers Under Review in Refereed Journals:**

- **Baha Alzalg**. Decomposition interior-point methods based on unital JH- algebras for stochastic conic optimization in spin factors. Submitted for publication.  
Available from: <[http://www.optimization-online.org/DB\\_HTML/2019/03/7103.html](http://www.optimization-online.org/DB_HTML/2019/03/7103.html)>.
- Mohammad Alabed Alhadi, **Baha Alzalg**. A homogeneous predictor-corrector algorithm for stochastic nonsymmetric convex conic optimization. Submitted for publication.  
Available from: <[http://www.optimization-online.org/DB\\_HTML/2018/03/6537.html](http://www.optimization-online.org/DB_HTML/2018/03/6537.html)>.

**GRADUATE STUDENT ADVISEES**

• **Doctoral Student Advisees:**

- Mohammed Naser Abdelhadi. The University of Jordan, Feb. 2017 – June 2018.  
Dissertation Title: *Optimization over nonsymmetric cones under uncertainty*.  
Position Held: Full-time Lecturer of Mathematics, Al-Balqa' Applied University, Jordan.

• **Master's Student Advisees:**

- Arwa Jebrel, The University of Jordan, Aug. 2015 – May 2017.  
◦ Khaled Badarneh, The University of Jordan, Aug. 2015 – Aug. 2016.

**CONFERENCE PRESENTATIONS**

- *Hybrid volumetric-logarithmic path-following algorithms for symmetric cone programming*. Presentation at the 21st Midwest Optimization Conference. **DeKalb, Illinois**, 18–19 Oct. 2019.
- *Decomposition-based interior-point methods for stochastic nonsymmetric conic optimization problems*. Presentation at the 2<sup>nd</sup> European Conference on Stochastic Optimization. **Rome, Italy**, 20–22 Sept. 2017.
- *The circular cone: A new paradigm for symmetric cones*. Presentation at the 5<sup>th</sup> 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 Intr. to Stochastic Semidefinite Programs*. Int'l Conf. on Cont. Optim. **Santiago, Chile**, 26–29 July 2010.

**INVITED PRESENTATIONS IN SEMINARS**

- NIU Math Department Colloquium, Northern Illinois University, **Dekalb, Illinois**, 25 September 2020.
- RIT Math Seminar, Rochester Institute of Technology, **Rochester, New York**, 5 February 2019.  
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**

- Midwest Arithmetic Geometry and Number Theory Series 2019.  
October 12–13, 2019 @ The Ohio State University, Columbus, Ohio.
- 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 Designing Academic Programs, Delivery Mechanisms and Evaluation.  
November 20–21, 2016 @ The Association of Arab Universities, Amman, Jordan.
- Workshop on Learning Outcomes within Professional Higher Education.  
November 14–15, 2016 @ The University of Jordan, 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.

**TEACHING EXPERIENCE**

I have taught mathematics courses in the period from 2008 till now at seven academic institutions in Ohio, 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 Ohio State University Columbus, OH, USA	CSE 2321: Foundations I-Discrete Structures (U-Graduate) Course webpage: <a href="http://u.osu.edu/alzalg.1/teaching/">http://u.osu.edu/alzalg.1/teaching/</a>	Fall 2019
The University of Jordan Amman, Jordan	0301973: Integer & Comb. Optimization ( <b>Graduate</b> ) Course webpage: <a href="http://sites.ju.edu.jo/sites/alzalg/pages/973.aspx">sites.ju.edu.jo/sites/alzalg/pages/973.aspx</a> 0301972: Modern Convex Optimization ( <b>Graduate</b> ) 0301981: Special Topics in Mathematics ( <b>Graduate</b> ) 0301472: Numerical Methods (U-Graduate) 0301471: Methods in Applied Math (U-Graduate) 0301371: Linear Optimization (U-Graduate) Course webpage: <a href="http://sites.ju.edu.jo/sites/alzalg/pages/371.aspx">sites.ju.edu.jo/sites/alzalg/pages/371.aspx</a> 0301212: Real Analysis (U-Graduate) 0301221: Ordinary Differential Eqs I (U-Graduate) 0301302: Engineering Math II (U-Graduate) 0301202: Engineering Math I (U-Graduate) 0301102: Calculus II (U-Graduate) 0301101: Calculus I (U-Graduate)	Spring 2018 Fall 2017 Spring 2017 Fall 2016 Sum. 2015 Fall 2015 Fall 2015 Fall 2014 Spring 2014 Fall 2013 Fall 2013 Spring 2013
University of Colorado Denver, CO, USA	MATH 3301: Intro to Operations Research I (U-Graduate) MATH 2411: Calculus II (U-Graduate)	Fall 2012 Fall 2012
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

**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](https://www.researchgate.net/profile/Baha_Alzalg3)
- **On MathSciNet:** <https://mathscinet.ams.org/mathscinet/MRAuthorID/984491>
- **On ORCID:** <https://orcid.org/0000-0002-1839-8083>
- **On Publons:** <https://publons.com/researcher/2271757/baha-alzalg>

### COMMITTEE MEMBERSHIPS IN THE UNIVERSITY OF JORDAN

- **At Departmental Level:**
  15. Chair of the Graduate Studies Committee in Mathematics Department, 2016/2017, 2017/2018.
  14. Chair of the Doctoral Qualifying Exam Committee, 2016/2017, 2017/2018.
  13. Member of the Departmental Social Committee, 2017/2018.
  12. Member of the Scientific Research Committee, 2014/2015, 2015/2016.
  11. Member of the Study Plan Committee, 2014/2015, 2015/2016.
  10. Member of the Conference Committee, 2015/2016.
  9. 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:**
  7. Member of the Graduate Studies Committee in the College of Science, 2016/2017, 2017/2018.
  6. Member of the Curriculum Committee in the College of Science, 2016/2017, 2017/2018.
  5. Member of the Planning, Design, and Construction Committee for a New Mathematics Building, 2015/2016.
  4. Member of the College's Safety and Emergency Response Committee, 2014/2015.
  3. Member of the Social and Sport Committee, 2015/2016.
- **At University Level:**
  2. 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.
  1. Member of the Committee for Quality Assurance and Development Affairs in the School of Science, Nov. 2016–Aug. 2018.

### HONORS AND AWARDS

12. Listed as an international optimization expert in *Expertise Finder* (2019)  
<<https://network.expertisefinder.com/experts/baha-alzalg>>
11. Listed in *Who's Who in Sciences Higher Education*, AcademicKeys (2013).
10. **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).
9. **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).
8. **First class honors in Mathematics**, M.Sc. degree, Yarmouk University, Irbid, Jordan (2007).
7. **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:**
  5. **A One-Year Scientific Visit Award to RIT**; funded by The University of Jordan, Amman (2018/2019).
  4. **Postdoctoral Scholarship in Optimization**; funded by Army Research Lab and BBN Technologies, The University of California, Davis (2012).
  3. **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).
  2. **Teaching assistantship with full tuition waiver and stipend**; awarded by Mathematics Department at Washington State University (2009).
  1. **Many travel and accommodation awards**; to present papers in international conferences and workshops.

### FUNDED RESEARCH PROJECTS

- **Interior-point methods for stochastic nonsymmetric optimization** (PI: Baha Alzalg); JOD 7200. 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, 8/2011. Project description available at: [ima.umn.edu/2010-2011/MM8.3-12.11](http://ima.umn.edu/2010-2011/MM8.3-12.11).

**PROFESSIONAL ACTIVITIES**

- **Journal Peer Reviewer:** I have served as a peer reviewer to many international journals:
  - Mathematical Reviews (MathSciNet, American Mathematical Society).
  - Journal of Optimization Theory and Applications (Springer).
  - Journal of Global Optimization (Springer).
  - Optimization Methods and Software (Taylor & Francis).
  - Optimization and Engineering (Springer).
  - Journal of Computational and Applied Mathematics (Elsevier).
  - International Journal of Applied and Computational Mathematics (Springer).
  - Journal of Supercomputing (Springer).
  - Arabian Journal of Mathematics (Springer).
  - FILOMAT (Publisher: Universitet of Nis).
  - Special Matrices (Publisher: De Gruyter Open Ltd.).
  - Applied Mathematics and Information Sciences (Publisher: Natural Sciences Publishing).
- **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.
- **Conferences Committee Member:** Member of the organizing committee for the following conferences:
  - Global Conference on Artificial Intelligence and Big Data, 25-26 June 2020, Chicago, IL, USA.
  - 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 (MOS).
- American Mathematical Society (AMS).
- Mathematical Association of America (MAA).
- Institute of Operations Research and the Management Sciences (INFORMS).
- Society for Industrial and Applied Mathematics (SIAM) [Activity groups: Optimization, Computation].
- The Operational Research Society.
- American Society for Engineering Education.
- 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.
- Jordanian society For Organic Farming.

**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 Modelling/Optimization/Simulation software such as AMPL, CPLEX, MOSEK, SDPT3.
- Comfortable with C, C++, MATLAB, MAPLE.
- Familiarity with Unix/Linux, Windows, L<sup>A</sup>T<sub>E</sub>X.
- Professionalism in HTML programming and web designing.

**REFERENCES****Ari Ariyawansa**

Professor of Operations Research  
Department of Mathematics  
Washington State University  
103 Neill Hall, Pullman, WA 99164-3113  
✉ ari@wsu.edu  
☎ +1 (509) 335-1188

**Rephael Wenger**

Associate Chair and Professor of CS  
Department of Computer Science & Engineering  
The Ohio State University  
485 DL, 2015 Neil Ave, Columbus, OH 43210  
✉ wenger.4@osu.edu  
☎ +1 (614) 292-6253

**Hisham Hilow**

Professor of Experimental design  
Department of Mathematics  
The University of Jordan  
Queen Rania Str., Amman, Jordan 11942  
✉ hilow@ju.edu.jo  
☎ +962 (6) 535-5000 Ext. 22107

**Roger J-B Wets**

Distinguished Professor of Operations Research  
Department of Mathematics  
The University of California, Davis  
One Shields Ave, Davis, CA 95616  
✉ rjbwets@ucdavis.edu  
☎ +1 (530) 754-0189

**Sami Mahmood**

Professor of Physics  
Physics Department  
The University of Jordan  
Queen Rania Str., Amman, Jordan 11942  
✉ s.mahmood@ju.edu.jo  
☎ +962 (6) 535-5000 Ext. 22107

CV LAST UPDATED: JANUARY 02, 2020.