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Academic and Professional Experience

Academic Experience

2018 – curr. **Imperial College London.** Imperial College Business School, Centre for Health Economics & Policy Innovation (CHEPI), Assistant Professor of Health Operations

2016 – 2018 **University of Chicago.** Department of Medicine, Senior Research Analyst, Faculty Development Program Instructor

2011 – 2016 **University of British Columbia.** Sauder School of Business, Postgraduate Researcher, Postgraduate and Undergraduate Course Leader

2009 – 2011 **University of Florida.** Industrial & Systems Engineering Department, Research and Teaching Assistant

2007 – 2009 **University of Tehran.** Industrial & Systems Engineering Department, Research and Teaching Assistant

2003 – 2009 **Sharif University of Tehran.** Industrial & Systems Engineering Department, Research and Teaching Assistant

Professional Experience

2007 **Iran Khodro Vehicles Manufacturing Co.** Tehran, Iran. Consultant. *Production Planning*

2005 **Machine Sazi Arak, Heavy Industries.** Arak, Iran. Consultant. *Total Quality Management*

Zamiad Vehicles Manufacturing Co. Tehran, Iran. Consultant. *Management Information Systems*

Education

2011 – 2016 **University of British Columbia** PhD in Management Science.

2009 – 2011 **University of Florida** M.Sc. in Operations Research.

2007 – 2009 **University of Tehran** M.Sc. in Industrial & Systems Engineering.

2003 – 2007 **Sharif University of Technology** B.Sc. in Industrial & Systems Engineering

Research Leadership

2019 – curr. Optimal hearing loss monitoring and infection treatment planning for patients with chronic lung disease. Research team: **Narges Mohammadi**, PhD student at Imperial College Business School

2020 – 2021. Optimal recurrence surveillance for cancer patients post treatment: the case of head and neck cancer squamous cell carcinoma, Research team: **Niloofar Zamani** , MRes student at Imperial College Business School

Research Publications

Published Journal Articles

1. Nair, V., Auger, S., Kochanny, S., Howard, F. M., Ginat, D., Pasternak-Wise, O., … **Skandari**, **R.** (2022). Development and Validation of a Decision Analytical Model for Posttreatment Surveillance for Patients With Oropharyngeal Carcinoma. *JAMA Network Open*, *5*(4), e227240–e227240. doi:10.1001/jamanetworkopen.2022.7240

2. Alexander, J. T., Staab, E. M., Wan, W., Franco, M., Knitter, A., **Skandari**, **R.**, … Philipson, L. H. et al. (2021a). Longer-term benefits and risks of sodium-glucose cotransporter-2 inhibitors in type 2 diabetes: A systematic review and meta-analysis. *Journal of general internal medicine*, 1–10. doi:10.1007/s11606-021-07227-0

3. Alexander, J. T., Staab, E. M., Wan, W., Franco, M., Knitter, A., **Skandari**, **R.**, … Philipson, L. H. et al. (2021b). The longer-term benefits and harms of glucagon-like peptide-1 receptor agonists: A systematic review and meta-analysis. *Journal of general internal medicine*, 1–24. doi:10.1007/s11606-021-07105-9

4. Dadwani, R., **Skandari**, **R.**, GoodSmith, M., Phillips, L., Rhee, M., & Laiteerapong, N. (2020). Alternative type 2 diabetes screening tests may reduce the number of us adults with undiagnosed diabetes. *Diabetic Medicine*, *37*(11), 1935–1943. doi:10.1111/dme.14330

5. Miksanek, T. J., **Skandari**, **R.**, Ham, S. A., Lee, W. W., Press, V. G., Brown, M. T., & Laiteerapong, N. (2020). The productivity requirements of implementing a medical scribe program. *Annals of Internal Medicine*. doi:10.7326/M20-0428

6. **Skandari**, **R.**, & Shechter, S. (2020). Patient-Type Bayes-Adaptive Treatment Plans. *Operations Research*. Published Online. doi:10.1287/opre.2020.2011

7. GoodSmith, M. S., **Skandari**, **R.**, Huang, E. S., & Naylor, R. N. (2019). The impact of biomarker screening and cascade genetic testing on the cost-effectiveness of MODY genetic testing. *Diabetes Care*, *42*(12), 2247–2255. doi:10.2337/dc19-0486

8. Wan, W., Nathan, A. G., **Skandari**, **R.**, Zarei, P., Reid, M. W., Raymond, J. K., & Huang, E. S. (2019). Cost-effectiveness of shared telemedicine appointments in young adults with T1D: CoYoT1 trial. *Diabetes care*, *42*(8), 1589–1592. doi:10.2337/dc19-0363

9. Laiteerapong, N., Cooper, J. M., **Skandari**, **R.**, Clarke, P. M., Winn, A. N., Naylor, R. N., & Huang, E. S. (2018). Individualized glycemic control for us adults with type 2 diabetes: A cost-effectiveness analysis. *Annals of Internal Medicine*, *168*(3), 170–178. doi:10.7326/M17-0537

10. Wan, W., **Skandari**, **R.**, Minc, A., Nathan, A. G., Winn, A., Zarei, P., … Huang, E. S. (2018). Cost-effectiveness of continuous glucose monitoring for adults with type 1 diabetes compared with self-monitoring of blood glucose: the DIAMOND randomized trial. *Diabetes Care*, *41*(6), 1227–1234. doi:10.1177/0272989X18803109

11. Wan, W., **Skandari**, **R.**, Minc, A., Nathan, A. G., Zarei, P., Winn, A. N., … Huang, E. S. (2018). Cost-effectiveness of initiating an insulin pump in T1D adults using continuous glucose monitoring compared with multiple daily insulin injections: the DIAMOND randomized trial. *Medical Decision Making*, *38*(8), 942–953. doi:10.2337/dc19-0363

12. Shechter, S. M., Chandler, T., **Skandari**, **R.**, & Zalunardo, N. (2017). Cost-effectiveness analysis of vascular access referral policies in CKD. *American Journal of Kidney Diseases*, *70*(3), 368–376. doi:10.1053/j.ajkd.2017.04.020

13. **Skandari**, **R.**, Shechter, S. M., & Zalunardo, N. (2015). Optimal vascular access choice for patients on hemodialysis. *Manufacturing & Service Operations Management*, *17*(4), 608–619. doi:10.1287/msom.2015.0552

14 Shechter, S. M., **Skandari**, **R.**, & Zalunardo, N. (2014). Timing of arteriovenous fistula creation in patients with CKD: a decision analysis. *American journal of kidney diseases*, *63*(1), 95–103. doi:10.1053/j.ajkd.2013.06.021

15 Salmasi, N., Logendran, R., & **Skandari**, **R.** (2011). Makespan minimization of a flowshop sequence-dependent group scheduling problem. *The International Journal of Advanced Manufacturing Technology*, *56*(5-8), 699–710. doi:10.1007/s00170-011-3206-9

16 Azadeh, A., **Skandari**, **R.**, & Maleki-Shoja, B. (2010). An integrated ant colony optimization approach to compare strategies of clearing market in electricity markets: Agent-based simulation. *Energy Policy*, *38*(10), 6307–6319. doi:10.1016/j.enpol.2010.06.022

17 Salmasi, N., Logendran, R., & **Skandari**, **R.** (2010). Total flow time minimization in a flowshop sequence-dependent group scheduling problem. *Computers & Operations Research*, *37*(1), 199–212. doi:10.1016/j.cor.2009.04.013

Dissertations

1 **Skandari**, **R.** (2016). *Optimal Treatment Planning under Consideration of Patient Heterogeneity and Preparation Lead-Time* (Doctoral Dissertation, Sauder School of Business, University of British Columbia, Vancouver, BC, Canada). Under the supervision of Prof. Steven Shechter. doi:10.14288/1.0314138

2 **Skandari**, **R.** (2009). *Designing a Decision Support System (DSS) to Manage Time, Cost, and Quality of a Project.* (Master's Thesis, University of Tehran). Under the supervision of Prof. Reza Ghodsi.

3 **Skandari**, **R.** (2007). *Scheduling a Flowshop Manufacturing Cell with Sequence Dependent Family Setups.* (Bachelor's Thesis, Sharif University of Technology). Under the supervision of Prof. Nasser Salmasi.

Presentations and Seminars

Invited Seminars

1 European Technology Operations Management (TOM) Seminar Series. (2021).

2 Sauder School of Business, University of British Columbia. (2019).

3 Department of Industrial & Systems Engineering, University of Wisconsin-Madison. (2018).

4 Imperial College Business School, Imperial College London. (2018).

5 Industrial & Systems Engineering Department, the University of Tennessee. (2018).

6 Lindner College of Business, University of Cincinnati. (2018).

7 School of Management, the State University of New York at Binghamton. (2018).

8 Systems Science & Industrial Engineering Department, the State University of New York at Binghamton. (2018).

9 Desautels School of Management, McGill University. (2016).

10 Grand Rounds at Division of Nephrology, University of British Columbia. (2016).

11 School of Management, University of California, Merced. (2016).

12 University of Alberta School of Business. (2016).

Conference Seminars

1 Optimal decision making in a Markov model with parameter uncertainty: the case of CKD. (2017), In *INFORMS Annual Meeting*, Houston, TX, USA.

2 Optimal decision making in a Markov model with parameter uncertainty: the case of CKD. (2017), In *Applied Probability Society Conference*, Evanston, IL, USA.

3 Markov decision processes with parameter uncertainty: the case of CKD. (2016), In *Canadian Operations Research Society Annual Conference*, Nashville, TN, USA.

4 Optimal decision making in a Markov model with parameter uncertainty: the case of CKD. (2016), In *INFORMS Annual Meeting*, Nashville, TN, USA.

5 Optimal decision making in a Markov model with parameter uncertainty: the case of CKD. (2015), In *INFORMS Annual Meeting*, Philadelphia, PA, USA.

6 Optimal vascular access choice for patients on hemodialysis. (2015), In *Manufacturing & Service Operations Management Conference*, Toronto, ON, Canada.

7 Optimal policies for arteriovenous fistula creation for patients on hemodialysis. (2014), In *INFORMS Annual Meeting*, San Francisco, CA, USA.

8 Optimal policies for arteriovenous fistula creation for patients on hemodialysis. (2013), In *Canadian Operations Research Society Annual Conference*, Vancouver, BC, Canada.

9 Dynamic timing of arteriovenous fistula creation for chronic kidney disease patients. (2012), In *INFORMS Annual Meeting*, Phoenix, AZ, USA.

10 The optimal time to prepare a fistula for hemodialysis patients. (2012), In *The 34th Annual Meeting of the Society for Medical Decision Making*, Phoenix, AZ, USA.

11 Patient testing and treatment strategies in the presence of preparation lead times. (2011), In *INFORMS Annual Meeting*, Charlotte, NC, USA.

12 Peak load pricing and production planning in an electricity market. (2010), In *INFORMS Annual Meeting*, Austin, TX, USA.

Teaching and Lectureship

Post-graduate Course Leader

2019 **Stochastic Dynamic Programming** Doctoral Programme. *Imperial College Business School*

2019 – curr. **Decision Analytics** MSc International Management (MiM) Programme. *Imperial College Business School*

2014 – 2015 **Simulation for Decision Making** Master of Business Analytics Programme. *Sauder School of Business, University of British Columbia*

Advanced Simulation for Decision Making Master of Business Analytics Programme. *Sauder School of Business, University of British Columbia*

Faculty Development Program, Course Leader

2017 **Cost-Effectiveness Analysis and Modeling** *Department of Medicine, University of Chicago*

Undergraduate Course Leader

2018—2021 **Project Management** The Business for Professionals of Engineering and Science (BPES) Programme. *Imperial College Business School*

2015 **Logistics and Operations Management** Bachelor of Commerce (BCom) *Sauder School of Business, University of British Columbia*

Teaching Assistant

2011—2016 **University of British Columbia** Managerial Decision Modeling and Analytics, Logistics and Operations Management

Teaching and Lectureship (continued)

2010—2011 **University of Florida** Quality Control

2007—2009 **University of Tehran** Production Planning and Inventory Management

2003—2007 **Sharif University of Technology** Queuing Theory, Discrete Event Simulation, C Programming Language, Management Information Systems

Grants and Awards

Research Grants

2018 **American Cancer Society**, *Co-Principal Investigator*.
Mathematical Prediction Models to Optimize Post-Treatment Surveillance in Head and Neck Cancer.

Bucksbaum Institute for Clinical Excellence at the University of Chicago, *Co-Principal Investigator*.
Building the Business Case for Medical Scribes

American Diabetes Association, *Consultant*.
Examining the U.S. cost-effectiveness of alternative glycemic treatment algorithms in the era of new medications

National Institute on Minority Health and Health Disparities, *Consultant*.
Predicting and Reducing Future Health Disparities for U.S. Adults with Diabetes

Awards

2022 **Teaching Excellence Award in PhD Supervision**. Imperial College London

2012 **Lusted Award Finalist**. Society for Medical Decision Making.

2012—2015 **Dean Earle D MacPhee Memorial Fellowship**. Awarded by the University of British Columbia.

2011—2015 **Sauder School of Business Graduate Award**. Awarded by the University of British Columbia.

2010—2012 **Alumni Fellowship**. Awarded by the University of Florida.

Student Supervision

PhD

2019 – curr. **Narges Mohammadi**
Thesis: *Optimal hearing loss monitoring and infection treatment planning for patients with chronic lung disease*

2020 – curr. **Tarita Murray-Thomas**
Thesis: *Real-world clinical data in health technology assessments in cardiovascular medicine*

Master of Research Leading to PhD

2020 – 2021. **Niloofar Zamani**
Thesis: *Optimal recurrence surveillance for cancer patients post treatment: the case of head and neck cancer squamous cell carcinoma*

Student Supervision (continued)

Pre-doctoral

2019 – curr. **Jaime Cheong**
Thesis: *NIHR Integrated Clinical and Practitioner Academic (ICA) Programme Pre-doctoral Clinical and Practitioner Academic Fellowship (PCAF)*

Academic Service

Journal Peer Review

Operations
- **Management Science**
- **Operations Research**
- **Production and Operations Management**
- **Naval Research Logistics**
- **Health Care Management Science**
- **IISE Transactions**

Economics
- **Health Economics**

Clinical
- **Heart, BMJ**

Conference Organization

2015-2017
- **INFORMS Annual Meeting**

References

- Prof. Steven Shechter, Professor at the Sauder School of Business at the University of British Columbia, Vancouver, BC, Canada (email: steven.shechter@sauder.ubc.ca)
- Prof. Mahesh Nagarajan, Professor and Chair of the Operations and Logistics Division at the Sauder School of Business at the University of British Columbia, Vancouver, BC, Canada (email: mahesh.nagarajan@sauder.ubc.ca)
- Prof. Maurice Queyranne, Professor at the Sauder School of Business at the University of British Columbia, Vancouver, BC, Canada (email: maurice.queyranne@sauder.ubc.ca)
- Prof. Elbert Huang, MD, MPH, Professor of Medicine, Director of the Center for Translational and Policy Research of Chronic Diseases, and Associate Director of the Chicago Center for Diabetes Translation Research at the University of Chicago (email: ehuang@medicine.bsd.uchicago.edu)
- Prof. Nadia Zalunardo, MD, Clinical Associate Professor of Nephrology at the University of British Columbia, Vancouver, and the Director of the Kidney Clinic at Vancouver General Hospital, (email: nadia.zalunardo@vch.ca)

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