

# MAOLOUD YAKHLIF DABAB

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Curriculum Vitae  
Last Updated: March 2019

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## EDUCATION

- 2020  
(Anticipated)      **Ph.D. Candidate**, Portland State University (Portland, OR, USA),  
Engineering and Technology Management
- Dissertation: An Assessment of the Decision-Making Units'  
Efficiency in Service Systems*
- 2017                      **M.S.**, Portland State University (Portland, OR, USA), Engineering and  
Technology Management
- 2007                      **B.S.**, Tripoli University (Tripoli, Libya), Telecommunication Engineering

## CONTINUING PROFESSIONAL EDUCATION

- 2018                      **Graduate Certificate**, Portland State University – School of Business  
(Portland, OR, USA), Business Intelligence and Analytics
- 2017                      **Graduate Certificate**, Portland State University (Portland, OR, USA),  
Strategic Management of Technology
- 2017                      **Graduate Certificate**, Portland State University (Portland, OR, USA),  
Project Management

## RESEARCH

### **Publications**

#### *Journals*

- In progress              **M. Dabab**, T. Nguyen, and T. Anderson, "An Assessment of Building  
Efficiency to Achieve an Effective Energy Sustainability Strategy"  
Elsevier Journal Energy and Buildings.

- In progress **M. Dabab**, and T. Anderson, "The Impact of Noise to Evaluate DMUs' Performance Using Data Envelopment Analysis and Malmquist Index Productivity" Elsevier European Journal of Operational Research.
- In progress **M. Dabab**, R. Khalifa, and C. Weber, "A Strategic Framework for Optimizing the Dynamic Capability Implementation through Business Intelligence and Data Analytics" Journal Paper.
- 2016 **M. Dabab**, "An Overview of Mobile Indoor Coverage: A Case Study of a Local Mobile Operator," Almadar Journal for Communication, Information Technology, and Application, April 2016, Vol.03, No. 01.

#### *Books*

- 2018 – Present **Contributor**, Operations Research Using R, an open-source book by Dr. Timothy Anderson
- 2018 – Present **Contributor**, Data Envelopment Analysis Using R, an open-source book by Dr. Timothy Anderson
- In progress **M. Dabab**, H. Barham, R. Craven, E. Gibson, T. Daim, "Technology Policy Roadmapping: Addressing Big Data Privacy Issue," Chapter of Planning and Roadmapping Technological Innovations Cases and Tools Book, Springer International Publishing, 2020

#### *Conference Papers and Presentations*

- 2020 **M. Dabab**, M. Almuzel, R. Khalifa, D. Bakry, "Evaluation of the Entrepreneurship Program and Managerial Efficiency in the Middle East and North Africa," WDSI Annual Conference, Portland, OR, USA.
- 2019 **M. Dabab**, D. Banker, T. Anderson. "Performance Assessment Of Service System Efficiency: A Case Of A Drive-Thru Service Chain," International Annual Conference, American Society for Engineering Management, Philadelphia, PA, USA.
- 2019 **M. Dabab**, R. Khalifa, N. Beltaif, "An Assessment of Cellular Providers in Libya for Positional Improvements Using Hierarchical Decision Model," in Management of Engineering and Technology (PICMET)/IEEE, Portland, OR, USA.
- 2019 N. Jacqueline, **M. Dabab**, T. Anderson, " Benchmarking and Evaluating the Efficiency of Mass Transit Systems Based on Best Practice Using Data Envelopment Analysis," in Management of Engineering and Technology (PICMET)/IEEE, Portland, OR, USA.

- 2019 R. Khslifa, **M. Dabab**, H. Barham, " A Preliminary Strategic Framework for Enhancing the Sustainability of International Technology Transfer: The Case of Libya," in Management of Engineering and Technology (PICMET)/IEEE, Portland, OR, USA.
- 2019 D. Bakry, **M. Dabab**, R. Khalifa, " Reflection of Critical Thinking on the Sustainable Educational Development: A Case Study of the Middle East and North Africa," in Management of Engineering and Technology (PICMET)/IEEE, Portland, OR, USA.
- 2019 D. Bakry, R. Khalifa, **M. Dabab**, "The Effectiveness of Entrepreneurship Programs to Reduce Unemployment in Developing Countries: The case of Saudi Arabia," in Management of Engineering and Technology (PICMET)/IEEE, Portland, OR, USA.
- 2018 **M. Dabab**, T. Anderson, "Benchmarking Cellular Technical Efficiency Using Data Envelopment Analysis," International Annual Conference, American Society for Engineering Management, Coeur d'Alene, ID, USA.
- 2018 **M. Dabab**, C. Weber, "Business Intelligence and Data Analytics as a Driver of Dynamic Capability Strategic Approach," in Management of Engineering and Technology (PICMET)/IEEE, Honolulu, HI, USA.
- 2018 **M. Dabab**, M. Freiling, N. Rahman, D. Sagalowicz, "A Decision Model for Data Mining Techniques," in Management of Engineering and Technology (PICMET)/IEEE, Honolulu, HI, USA.
- 2018 **M. Dabab**, R. Craven, H. Barham, E. Gibson, "Exploratory Strategic Roadmapping Framework for Big Data Privacy Issues," in Management of Engineering and Technology (PICMET)/IEEE, Honolulu, HI, USA.
- 2018 M. Saadatmand, **M. Dabab**, C. Weber, " Dynamics of Competition and Strategy: A Literature Review of Strategic Management Models and Frameworks," in Management of Engineering and Technology /IEEE, Honolulu, HI, USA.

### **Presentations**

- 2019 **M. Dabab**, T. Anderson, "Exploring the Impact of Noise on Data Envelopment Analysis," 2019 INFORMS Annual Meeting, Seattle, WA.
- 2019 **M. Dabab**, T. Anderson, "An Assessment of Decision Making Units' Efficiency In Service System," Student Research Symposium Poster, Portland, OR, USA.

## TEACHING

### **Pacific Lutheran University** (Tacoma, WA, USA)

*Adjunct Instructor* (Summer 2019 – Present)

School of Business, MBA Program

BMBA 570: Technology Market Management

Overview: The course designed to address the advanced aspects of supply chain management such as supply contracts, procurement and outsourcing strategies, inventory management and risk pooling, network planning, the value of information, supply chain integration, distribution strategies, strategic alliances, global logistics and risk management, smart pricing, and performance evaluation. The course was included case studies analysis, SCM publications critique, several video chats, class activities, and final research project

### **Portland State University**

*Teaching Assistant* (June 2019 – Present)

Engineering and Technology Management

ETM 534/634: Technology Roadmapping (Summer 2019)

ETM 536/636: R&D Management (Summer 2019)

ETM 590: Engineering and Technology Management Synthesis (Summer 2019)

ETM 540/640: Operation Research (Fall 2019, Winter 2020)

ETM 507/607: Graduate Seminar (Fall 2019, Winter 2020)

*Curriculum Developer* (September 2018 – Present)

School of Business - Business Intelligence and Data Analytics Graduate Certificate

Overview: Preparing external material and resources for students; Developing Primer Website for new students; Monitoring improvements of students

*Graduate Tutor* (September 2018 – December 2018)

Overview: Tutored two graduate classes in BI Certificate:

ETM 540: Operation Research

ISQA 516: Regression Analysis

Assisted ETM and BI students with preparing class projects  
Followed up with students to ensure the success

### **Technical Engineering College** (Zwara, Libya)

*Instructor of Record* (February – September 2014)

ETE 350: Digital Communication System II

ETE 460: Mobile System

Overview:

The ETE 350 course is the second course in a two-course series covering the principles of digital transmission of information and extends the concepts learned in transmission over band-limited and

analytical and simulation models for bandlimited systems in the presence of noise. The ETE 460 course introduces the design and implementation of mobile system networks and prepares activities for students to practice using mobile data software for planning and optimization of the mobile radio network. Assisted students with preparing capstone project.

## **PROFESSIONAL EXPERIENCE**

### **Asset Management Engineer**

01/2020 – Present     **Senior Engineering Associate**, Asset Management Group, Water Bureau  
*City of Portland, Portland, OR, USA*

- Manage cross-functional team to establish facility site plan for critical assets
- Establish key performance dashboard for organizational and asset performance
- Maintain asset inventory database, including risk ranking and risk mitigation
- Create condition assessment plan and recommendations for high-risk assets
- Technology expert for Water Bureau strategic business plan

### **Business Analyst**

09/2018 – 01/2020     **Sr. Asset Management Analyst**, Water Bureau  
*City of Portland, Portland, OR, USA*

- Built Water Bureau asset hierarchy system, including compiling asset attributes and meta data, using data from Portland Water Bureau's GIS and Computerized Maintenance Management System
- Assisted with Future Funding Needs Assessment project to predict the operation annual budget
- Worked with field staff to create standard work on data collection to inform future project asset needs and cost

10/2018 – 01/2020     **Sustainability Data Analyst**, Campus Sustainability Office  
*Portland State University, Portland, OR, USA*

- Analyzed and assessed data (such as University utilities, waste totals, and campus purchases) to identify improvement opportunities of educational resources
- Created online, interactive dashboard using PowerBI

- Assisted with tracking and evaluating the PSU Green Revolving Fund and annual report data

03/2018 – 09/2018 **Planning Specialist**, Water Bureau  
*City of Portland, Portland, OR, USA*

- Coordinated with various Water Bureau workgroups to revise the project prioritization methodology; including surveying major U.S. utilities to inform best practices
- Upgraded existing database to create a new prioritization tool, factoring in project costs and risk assessment

### **Administrative and Leadership Experience**

01/2018 – 06/2019 **Member**, International Cultural Service Program  
*Portland State University, Portland, OR, USA*

- Promoting cross-cultural understanding at PSU and in the greater Portland area
- Giving in-person presentations and lead activities in Portland
- Spreading cultural awareness and help grow an appreciation for cultural differences
- Volunteering time as panelist, public speaking, and cultural liaison

09/2016 – 12/2017 **Mentor**, Intensive English Language Program (IELP)  
*Portland State University, Portland, OR, USA*

- Served as a resource for new IELP students and introduced the American university life
- Welcomed and interacted with students and teachers and assumed the role of peer mentor
- Provided support for IELP students by advising on the US education system and life of the student
- Organized new student orientation and led activities in student lounge

06/2017 – 08/2017 **Graduate Program Assistant**, Fulbright Program in the Intensive English Language Program  
*Portland State University, Portland, OR, USA*

09/2016, 09/2017  
09/2018, 09/2019 **Orientation Assistant**, Multiple Departments/Areas  
Maseeh College of Engineering and Computer Science  
Intensive English Language Program  
Office of International Affairs  
*Portland State University, Portland, OR, USA*

## Other Relevant Experience

09/2015 – 03/2019    **Classroom Audio Visual Technician**, Office of Information Technology  
*Portland State University, Portland, OR, USA*

- Provided training, troubleshooting and support to instructional technology users, including faculty, staff, and students
- Maintained equipment in both the AV office space and classrooms
- Ensured compliance with university and audio-visual services policies

03/2013 – 12/2014    **Engineering Manager**, Radio Network Design Unit  
*Almadar Aljadid Telecommunication Mobile Company, Tripoli, Libya*

- Supervised three communication engineers
- Reported daily, weekly and monthly operational issues
- Responsible for new site planning and development through analysis of traffic usage patterns
- Designed comprehensive, telecommunications coverage solutions

10/2009 – 12/2014    **Corporate Trainer**  
*Almadar Aljadid Telecommunication Mobile Company, Tripoli, Libya*

- Trained students and led site-visit field trips
- Integrated Corporate Social Responsibilities into company policy
- Helped write the employee guide on working responsibly within the company's ethical code

07/2008 – 02/2013    **Engineer**, Radio Network Optimization  
*Almadar Aljadid Telecommunication Mobile Company, Tripoli, Libya*

- Monitored monthly mobile Key Performance Indicators (KPIs)
- Collected and analyzed drive test data to recommend improvements to the radio network
- Assisted customers with issues and technical questions
- Integrated Corporate Social Responsibilities into company policy

## SERVICE

### **Service to Profession**

- 2019 – Present      **Reviewer**, IEEE Transactions on Engineering Management, IEEE
- 2018 – Present      **Editorial Assistant**, Portland International Conference on Management of Engineering and Technology (PICMET)
- 2017 – Present      **Reviewer**, Journal of Mobile Communication, Computation and Information – Wireless Networks, Springer

### *Professional Meeting Organizing*

- 2017 – 2019      **On-Site Organizing Committee Member**, PICMET

## FELLOWSHIPS, AWARDS, AND HONORS

- 2019 – 2020      Dr. Robert D. Dryden Memorial Scholarship Award, Maseeh College of Engineering and Computer Science (MCECS), Portland State University, Portland, OR, USA
- 2018 – 2020      Laurels Graduate Award, The Graduate School, Portland State University, Portland, OR, USA
- 2019              Academic Excellence Award, Student Activities and Leadership Programs (SALP), Portland State University, Portland, OR, USA
- 2019              Outstanding International Student Recognition Award, Office of International Student and Scholar Services (OISSS), Portland State University, Portland, OR, USA
- 2019              People's Choice Awards in PhD Form ETM Poster, Portland State University, Portland, OR, USA
- 2019              Semi-finalist of Cleantech Challenge, Center of Entrepreneurship at Portland State University, Portland, OR, USA
- 2018              People's Choice Awards in 3 Minute Thesis, Portland State University, Portland, OR, USA
- 2017              Student Employment Award Nomination Certificate, Portland State University, Portland, OR, USA
- 2015 – 2017      Libyan Government Masters Scholarship Award

## **PROFESSIONAL DEVELOPMENT**

- 2019                      Fundamentals of Engineering (FE)  
*National Council of Examiners for Engineering and Surveying –  
Portland, OR, USA*
- 2019                      Power BI Dashboard in a Day  
*CSG Pro Consultants – Portland, OR, USA*
- 2013                      iBWave Software Certificate  
*iBWave – Marrakech, Morocco*
- 2013                      Radio Network Design & Planning Courses  
*Huawei – Shenzhen, China*
- 2012                      Radio Network Optimizing Courses  
*Ericsson – Rome, Italy*

## **PROFESSIONAL AFFILIATIONS**

- Treasurer**, Omega Rho International Honor Society, Portland State University, 2018-2019
- Member**, American Society for Engineering Management, USA, Summer 2018
- Member**, Omega Rho International Honor Society, Portland State University, 2017-Present
- Member**, Portland Power BI User Group
- Member**, Portland R User Group