

# TUBA YILMAZ GÖZBAŞI

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## EXPERIENCE

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**Ozyegin University, Business Faculty, Istanbul, August 2014 -**

### ◇ Teaching Experience:

- OPER 202 Operations Management: Fall 2017 (2 sections), Undergraduate level (4.74 and 4.5 out of 5 for overall instructor performance in Course Evaluations)
- OPER 313 Revenue Management: Fall 2017 (1 section), Undergraduate level (4.71 out of 5 for overall instructor performance in Course Evaluations)
- OPER 202 Operations Management: Spring 2017 (2 sections), Undergraduate level (4.37 and 4.57 out of 5 for overall instructor performance in Course Evaluations)
- MGMT 311 Project Management: Spring 2017 (1 section), Undergraduate level level (4.83 out of 5 for overall instructor performance in Course Evaluations)
- OPER 202 Operations Management: Spring 2016 (1 section), Undergraduate level (4.86 out of 5 for overall instructor performance in Course Evaluations)
- MGMT 311 Project Management: Spring 2016 (1 section), Undergraduate level (4.46 out of 5 for overall instructor performance in Course Evaluations)
- OPER 313 Revenue Management: Fall 2015 (1 section) Undergraduate level (4.94 out of 5 for overall instructor performance in Course Evaluations)
- OPER 202 Operations Management: Fall 2014 (2 sections), Summer 2015, Undergraduate level (4.46 and 4.38 out of 5 for overall instructor performance in Course Evaluations)
- MGMT 741 Revenue Management: Fall 2014, MBA level (3.71 out of 5 for overall instructor performance in Course Evaluations)
- MGMT 311 Project Management: Spring 2015, Undergraduate level (4.92 out of 5 for overall instructor performance in Course Evaluations)
- Talk on Information and Communications Technology in SEC 201-202 classes in Fall 2014 and Spring 2015

### ◇ Research: Working papers:

- Dynamic Lead-time quation problems for substitutable products
- Dynamic Lead-time quation problems with order cancellations
- Dynamic Routing with Clustering Constraints
- Integration of Supply Chain Management and Revenue Management: Sales Visit Frequency and Routing
- Cash Replenishment Optimization

### ◇ Service:

- Curriculum Committee (Member)
- Executive Education Committee (Member)

### ◇ Grants:

- TÜBİTAK 1507 Nakit Dağıtım ve Toplama Platformu Geliştirme Projesi: Advising in Analysis and Design phases, January – July 2016

**Optiyol Decision Analytics, Co-Founder, Istanbul, December 2014 –**

- Our goal is to enable superior planning at our customers by developing cutting-edge, data-driven decision support systems that facilitate informed decisions
- Supply Chain Optimization, Marketing Optimization, Sales Channel Optimization, Revenue Management

◇ **Projects:**

- Saha Ziyaret Planlama ve Optimizasyon Platformu, Teknopark İstanbul
- Nakit Dağıtım ve Toplama Platformu Geliştirme Projesi, TÜBİTAK 1507 KOBİ AR-GE Başlangıç Destek Programı
- Dinamik Kaynak Planlama Platformu, Teknopark İstanbul Kuluçka Merkezi

◇ Nominated Startup firm of the year in Teknopark İstanbul in 2016

◇ Selected for Türk Telekom Pilot Startup Accelerator Program

◇ Nominated to attend Startupbootcamp Berlin Smart Transportation Program

**Ozyegin University, Engineering Faculty, Istanbul, Sept 2013-June 2014**

◇ **Part-time Faculty**

Teaching Project Management course offered to senior engineering students

Teaching Pricing and Revenue Optimization course offered to industrial engineering students

**Solvoyo Co., Istanbul, Dec 2012-June 2014**

◇ **Product Engineer**

Supply chain optimization software company on a SaaS platform.

Responsible for product visioning/marketing, presales support, solution design, implementation and project management on product development and customer engagements

**Georgia Institute of Technology, Atlanta, GA, Aug 2007- May 2012**

**Graduate Research Assistant**

◇ Dynamic lead time quotation with order cancellations

- Developed a Markov decision process model to analyze the effects of order cancellations on optimal lead-time quotes considering the timing of cancellation and cancellation type

◇ Dynamic lead time quotation for substitutable products

- Developed a Markov decision process and analyzed the structure of the optimal policy and profit
- Compared optimal lead-time quotes and profits with or without substitution and dynamic versus static lead-time quotation and evaluated the additional benefits of substitution and/or dynamic quotation under different parameter settings

◇ Manpower allocation problem with job-teaming constraints

- Developed and solved a mixed integer model and several heuristics

◇ Improving rounding process in a pediatric intensive care unit using lean methodology

- Analyzed observational data for rounding processes and evaluated using statistical tools

◇ Diversity Research Lab, Computer Science Department

- Performed quantitative and qualitative data gathering and analysis for comparing perceptions of Computer Science leavers and graduating seniors, exploring motivations for selection of Computer Science path

**Bogazici University, Istanbul, Turkey, July 2006- July 2007**

◇ **Research Assistant:** Simulation of Maritime Transit Traffic in Istanbul Strait, supervised by Prof. Ilhan Or

- Formulated the transit vessel traffic scheduling process currently in place mathematically and incorporated the algorithm into simulation model designed to be used for risk analysis purposes

◇ **Teaching Assistant, Industrial Engineering, 2006-2007**

- Assisted in teaching for two undergraduate level (Engineering Economics, Managerial Accounting) and one graduate level (Project Management) course
- Taught problem solving lectures, prepared assignments and exams, held office hours, did grading

**Coursework:** Optimization Techniques, Stochastic Processes & Application, Statistical Data Analysis, Integer Programming, Dynamics of Socio-Economic Systems, Dynamic Systems Modeling & Analysis, Special Topics in Reliability and Advanced Statistics, Special Topics in Optimal Control Theory

**Procter & Gamble, Istanbul, Turkey, Summer 2005**

◇ **Intern in Customer Service & Logistics Department**

- Developed a method for setting right inventory targets for every SKU specific for a distributor shipment point
- Evaluated and redesigned the master data information sharing process of distributors with retailers

**EDUCATION**

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**Georgia Institute of Technology, Atlanta, GA**

◇ **Ph.D. Industrial and Systems Engineering, Jan 2013**

with specialization in **Supply Chain Engineering** and minor in **Mathematics**

Advisor: Prof. Pinar Keskinocak

Thesis: Dynamic Resource Allocation in Manufacturing and Service Industries

◇ **M.Sc. Operations Research, May 2011**

**Coursework:** Linear Optimization, Discrete Optimization, Nonlinear Optimization, Stochastic Processes, Regression Analysis, Simulation, Production & Service Systems Engineering, Logistics Systems Engineering, Warehousing Systems, Economic Decision Analysis, Design & Analysis of Algorithms, Analysis, Mathematical Statistics, Classical Probability, Operation Plan & Control, Humanitarian & Health Applications of OR/MS

**Bogazici University, Istanbul, Turkey**

◇ **B.S. Industrial Engineering, June 2006**

## PUBLICATIONS

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### Published papers in refereed journals

- ◇ A. Vats, K. Goin, M. Villarreal, T. Yilmaz, J. Fortenberry, P. Keskinocak (2012), "The Impact of a Lean Rounding Process in a Pediatric Intensive Care Unit," *Critical Care Medicine*, Vol.40, No. 2, p. 608-17
- ◇ O. Uluscu, B. Ozbas, T. Altiok, I. Or, T. Yilmaz (2008), "Transit Vessel Scheduling in the Strait of Istanbul," *Journal of Navigation*, vol. 62, issue 01, p. 59, 2008

### Refereed conference proceedings

- ◇ M. Villarreal, T. Yilmaz (2010), "A Pediatric Intensive Care Unit Rounding Process Lean Transformation," *Proceedings of the 2010 Industrial Engineering Research Conference*, June 5-9 2010, Cancun, Mexico
- ◇ A. Vats, K. Goin, T. Yilmaz, M. Villarreal, J. Fortenberry, P. Keskinocak (2009), "A Lean Focused Rounding Process in a Pediatric Intensive Care Unit Increases Efficiency, Optimizes Resources, and Improves Satisfaction," *Supplement of Critical Care Medicine*, Vol. 37, Dec 2009
- ◇ M. Biggers, T. Yilmaz, M. Sweat (2009), "Using Collaborative, Modified Peer Led Team Learning to Improve Student Success and Retention in Intro CS," *Proceedings of the 39th SIGCSE technical symposium on Computer science education*, March 2009, Chattanooga, TN USA
- ◇ M. Biggers, A. Brauer, T. Yilmaz (2008), "Research on Student Perceptions of Computer Science: A Retention Study Comparing Graduating Seniors vs. CS Leavers," *Proceedings of the 39th SIGCSE technical symposium on Computer science education*, March 2008, Portland, Oregon USA
- ◇ I. Or, B. Ozbas, T. Yilmaz (2007), "Simulation of Maritime Transit Traffic In the Istanbul Strait – II: Incorporating the Traffic Regime, Arrival Processes, Meteorological Conditions". *Proceeding of 21st European Conference on Modelling and Simulation*, June 3-6, 2007, Prague- Czech Republic

### Working papers

- ◇ T. Yilmaz Gozbasi, P. Keskinocak, E. Gel, "Dynamic Lead-Time Quotation with Order Cancellations"
- ◇ T. Yilmaz Gozbasi, P. Keskinocak, E. Gel, "Dynamic Lead-Time Quotation for Substitutable Products"
- ◇ T. Yilmaz Gozbasi, O. Gozbasi, "Dynamic Routing with Clustering Constraints"
- ◇ T. Yilmaz Gozbasi, O. Gozbasi, "Integration of Supply Chain Management and Revenue Management: Sales Visit Frequency and Routing"
- ◇ T. Yilmaz Gozbasi, O. Gozbasi, B. Sarıkaya "Cash Replenishment Optimization"

### Conference presentations

- ◇ T. Yilmaz Gozbasi, P. Keskinocak, E. Gel, "İkame Ürünlerin Tedarik Sürelerinin Dinamik Olarak Belirlenmesi" , *YAEM 2015 Doğal Kaynakların Yönetiminde Yöneylem Araştırması ve Endüstri Mühendisliği*, Ankara, Turkey, September 9-11, 2015
- ◇ T. Yilmaz Gozbasi, P. Keskinocak, E. Gel, "Dynamic Lead-Time Quotation for Substitutable Products" , *The International Institute of Industrial Engineers Conference*, Istanbul, Turkey, June 26-28, 2013
- ◇ T. Yilmaz Gozbasi, E. Ozpolat, "Integrated Inventory & Replenishment Planning: An Application to a National Discount Chain" , *The International Institute of Industrial Engineers Conference*, Istanbul, Turkey, June 26-28, 2013

- ◇ I. Or, B. Ozbas, T. Yilmaz, "Simulation of Maritime Transit Traffic In the Istanbul Strait – II: Incorporating the Traffic Regime, Arrival Processes, Meteorological Conditions," *21st European Conference on Modelling and Simulation*, Prague, Czech Republic, June 2007

#### Poster presentations

- ◇ M. Villareal, T. Yilmaz, "A Pediatric Intensive Care Unit Rounding Process Lean Transformation," Humanitarian Logistics Conference, Atlanta, GA, March 2010

#### HONORS AND AWARDS

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- ◇ Nominated to attend "**INFORMS Professional Colloquium**" in *INFORMS Conference on Business Analytics and Operations Research*, Chicago, IL, 2011
- ◇ **Third Place**, *Industrial Engineering Research Conference the fourth IIE Lean Student Paper Competition*, "A Pediatric Intensive Care Unit Rounding Process Lean Transformation," June 2010
- ◇ **Annual Scientific Award**, *The Society of Critical Care Medicine*, "A Lean Focused Rounding Process in a Pediatric Intensive Care Unit Increases Efficiency, Optimizes Resources, and Improves Satisfaction," Dec 2009
- ◇ **TUBITAK** Graduate Students Scholarship, 2007-2008
- ◇ **Ranked 5th** in class of Industrial Engineering, Bogazici University, Turkey, 2006
- ◇ Dean's **High Honor** Student, Bogazici University, Turkey, 2002-2006
- ◇ **First Place**, Case Analysis Competition, Bogazici University, Turkey, 2005
- ◇ **Ranked 258th** in Quantitative in Nationwide University Entrance Examination, Turkey, 2001