SAHIKA SAHAN KONUR
Information Systems & Analytics
McCoy College of Business, Texas State University

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ACADEMIC EXPERIENCE

- **Assistant Professor** in Information Systems & Analytics, Texas State University   09/2023-Present

EDUCATION

- **Ph.D.** in Supply Chain, Operations, and Technology, Olin Business School, Washington University in St. Louis   08/2018-Present
- **Ph.D.** in Mathematics, Department of Mathematics & Statistics, Missouri University of Science and Technology   07/2017
- **M.S.** (non-thesis) in Applied Mathematics, Missouri University of Science and Technology   12/2014

RESEARCH

Research Interests:

- **Topics:** Assortment Optimization, Revenue Management, Inventory Control, Operations Management, Supply Chain Management, Customer Choice Modeling

- **Methodologies:** Dynamic Programming, Operations Research, Stochastic Optimization, Machine Learning

Working Papers:

- Sahika Sahan, Jacob Feldman. Pricing and Assortment Optimization Under a Model with Bulk Returns

- Sahika Sahan, Jacob Feldman. Assortment Decisions with Free Shipping and Bulk Returns

- Sahika Sahan. Optimal Assortment and Free Shipping Strategies

Publications:

*Authors are ordered alphabetically based on American Mathematical Society guidelines.

- W. J. Charatonik, S. Sahan (2021). *Menger Curve as Inverse Limits*, Topology and Its Applications 304 (December), 107788. https://doi.org/10.1016/j.topol.2021.107788

- W. J. Charatonik, S. Sahan (2019). *Zero-Dimensional Spaces Homeomorphic to Their Cartesian Squares*, Houston Journal of Mathematics 45(2), pp. 601-608. https://www.math.uh.edu/~hjm/Vol45-2.html

- W. J. Charatonik, S. Sahan (2016). *Inverse Limits with Bonding Functions Whose Graphs Are Connected*, Topology and Its Applications 210 (September), pp. 16-21. https://doi.org/10.1016/j.topol.2016.05.019

- W. J. Charatonik, S. Sahan (2016). *Limits of Inverse Limits, A Counterexample*, Questions and Answers in General Topology 34(1), pp. 37-38. http://qagt.org/v34n1.html

- A. C. Guler, S. Sahan (2014). *Unification of Π - Generalized Closed Sets by Hereditary Classes In Generalized Topological Spaces*, Acta Universitatis Apulensis 38, pp. 45–53. http://auajournal.uab.ro/upload/63_1032_ACGSS.pdf

Conference/Seminar Presentations:

- *Pricing and Assortment Decision Under a Model with Bulk Returns **(invited)***, INFORMS Annual Meeting – October 2023, Phoenix, AZ, USA.

- *Pricing and Assortment Decision Under a Model with Bulk* Returns **(invited)**, ISEN Seminar at Dept. of Industrial & Systems Engineering at Texas A&M – September 2023, College Station, TX, USA.

- *Assortment Decisions with All-At-Once Returns and Heterogeneous Customers **(invited)***, INFORMS Annual Meeting - October 2022, Indianapolis, IN, USA.

- *Assortment Decisions with All-At-Once Returns and Heterogeneous Customers*, INFORMS Revenue Management and Pricing Section Conference - June 2022 (virtual).

- *Assortment Decisions with All-At-Once Returns and Heterogeneous Customers*, POMS Annual Meeting - April 2022 (virtual).
- *Assortment Decisions with All-At-Once Returns and Heterogeneous Customers*, INFORMS Annual Meeting - October 2021 (virtual).
- *All-at-Once Product Returns: Algorithms for Assortment and Pricing Decisions (invited)*, INFORMS Annual Meeting - November 2020 (virtual).
- *Zero-dimensional spaces homeomorphic to their Cartesian squares*, Spring Topology and Dynamics Conference - March 2016, Waco, TX, USA.
- *Zero-dimensional spaces homeomorphic to their hyperspace $F_n(X)$*, 3rd Workshop of Association for Turkish Women in Maths - May 2016, Izmir, TURKEY.
- *Inverse limits with bonding functions whose graphs are connected*, Spring Topology and Dynamics Conference - May 2015, Bowling Green, OH, USA.
- *Inverse limits with bonding functions whose graphs are connected*, Missouri Section of MAA - March 2015, Rolla, MO, USA.

TEACHING

Teaching at McCoy College of Business, Texas State University:
- *Instructor for:*
   o QMST 5335.251 – Forecasting &Simulation: Spring 2024
   o QMST 5335.253 – Forecasting &Simulation: Spring 2024
   o QMST 5332.001 – Optimization for Business Analytics: Fall 2023
   o QMST 5332.003 – Optimization for Business Analytics: Fall 2023

Teaching at Olin Business School, Washington University in St. Louis:
- *Instructor for:*
   o DAT 500N - Prescriptive Analytics (graduate): Fall 2022 (3 sections)
- *Teaching Assistant for:*
   o DAT 301E - Data Analytics in Phyton (undergraduate): Fall 2019, Fall 2020, Fall 2021, Fall 2022
   o DAT 561 - Introduction to Phyton and Data Science (graduate): Fall 2019, Fall 2020, Fall 2021

Teaching at the Department of Mathematics and Statistics, Missouri University of Science and Technology:
- *Instructor for:*
   o MATH 1214 - Calculus for Engineers 1: Fall 2017
   o MATH 1120 - College Algebra: Fall 2017, Fall 2014, Spring 2014
   o MATH 3108 - Linear Algebra 1: Fall 2016, Spring
Teaching at Columbia College, Rolla MO:
- *Instructor for:*
   o MATH 215 - Differential Calculus: Spring 2017, Spring
   o MATH 226 - Integral Calculus Part I: Spring 2017, Fall 2016, Spring 2016
   o MATH 235 - Integral Calculus Part I: Spring 2017, Fall 2016
   o MATH 300 - Multivariate Calculus: Fall 2017, Fall 2016

Teaching Awards/Certificates and Other Teaching Activities:
- ***GTA Teaching Excellence Award,*** Department of Mathematics and Statistics, Missouri S&T, Fall 2015
- ***Completion Certificate,*** Designing Courses for Significant Learning (online course), Fall 2016
- Attended ***2016 Curator's Teaching Summit***, Missouri S&T, Rolla, MO, Fall 2016
- Attended ***Teaching and Learning Technology 2017 Conference***, Missouri S&T, Rolla, MO, Fall 2017
- Mathematics teaching to pre-college students, Izmir, Turkey, 2009-2011

INDUSTRY CONSULTING

- *Hunter Engineering:* PhD Lead, Critical Part Risk Assessment Tool, Spring 2023
- *Olin Business School:* PhD Lead, Process Analysis of Obtaining Visas for Olin International Students, Fall 2022
- *Express Script*: PhD Lead, Sales & Operations Planning, Fall 2021
- *MilliporeSigma*: PhD Lead, Maximizing Packaging Capacity and Performance through Productivity Tool, Spring 2020
- *InsideRX*: PhD Lead, Digital Marketing Optimization & Modeling Framework, Fall 2019

OTHER AWARDS and CERTIFICATES

- *Web-Scraping and Data-Cleaning for Research*, Kelley School of Business, Indiana University, July 2021
- *NSF Travel Support* for the 51st Spring Topology and Dynamical Systems Conference, Spring 2017
- *NSF Travel Support* for the 50th Spring Topology and Dynamical Systems Conference, Spring 2016
- *NSF Travel Support* for the 49th Spring Topology and Dynamical Systems Conference, Spring 2015
- *NSF Travel Support* for the 48th Spring Topology and Dynamical Systems Conference, Spring 2014
- *NSF Travel Support* for the 47th Spring Topology and Dynamical Systems Conference, Spring 2013
- Achievement of *Honor's List Status*, Missouri S&T, Fall 2014
- *Participation Certificate*, Taller de Investigación en Continuos e Hiperspacios, Matemáticas Autónoma de Chiapas, June 2014
- *Travel Support* for Continuum Theory Workshop in Mexico, Department of Mathematics & Statistics, Missouri S&T, Spring 2014

OTHER

Programming: Phyton, R, Matlab, LaTex
Language: Turkish (Native), English