

CURRICULUM VITAE

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Date of Birth: March 7, 1985
Place of Birth: Izmir / TURKEY
Title: Assistant Professor

ACADEMIC EMPLOYMENT

2018 – Present: Assist. Professor at the Department of Industrial Engineering, Kadir Has University, Istanbul.
2016 – 2018: Assist. Professor at the Department of Industrial Engineering, Işık University, Istanbul.
2015 – 2016: Visiting Professor at the Department of Industrial Engineering, Işık University, Istanbul.
2011 – 2015: Teaching Assistant at Econometrics Department, Erasmus University, Rotterdam, the Netherlands.
2010 – 2011: Personal Research Assistant of Prof. Rommert Dekker, Erasmus Research Institute of Management (ERIM), Erasmus University, Rotterdam, the Netherlands.
2009 – 2010: Teaching and Research Assistant, Institute of Environmental Sciences, Bogazici University, Istanbul.

AWARDS, GRANTS AND SCHOLARSHIPS

2021 – 2022: The Scientific and Technological Research Council of Turkey (TUBITAK), 1001-The Scientific and Technological Research Projects Funding Program, PI, (120K TRY -Apprx. \$20000).
2020 – 2028: The Scientific and Technological Research Council of Turkey (TUBITAK), 2244- Industrial PhD Fellowship Program, LPI.
2020 – 2023: The Scientific and Technological Research Council of Turkey (TUBITAK), 1001-The Scientific and Technological Research Projects Funding Program, LPI, (550K TRY -Apprx. \$70000).
2020 – 2020: The Scientific and Technological Research Council of Turkey (TUBITAK), 1001-The Scientific and Technological Research Projects Funding Program, PI.
2018 – 2019: The Scientific and Technological Research Council of Turkey (TUBITAK), 3501 Career Development Grant, LPI, (140K TRY -Apprx. \$26900)
2015 : Turkish Operations Research Society, Best Application Award, Runner-up with OBASE Replenishment System, Turkey.
2013 : Erasmus Trustfonds, Scholarship for Research on Spare Parts Management, the Netherlands.
2007 – 2009: The Scientific and Technological Research Council of Turkey (TUBITAK), National Scholarship Program for MSc Students, Turkey.

PUBLICATIONS

- 1) Hekimoğlu, M., Karlı, D., On the Distribution Selection for Spare Parts Demand In Existence of Stochastically Dynamic Installed Base, *International Journal of Production Economics*, Accepted.
- 2) Hekimoğlu M., Scheller-Wolf A., 2023, Dual sourcing Problem with Stock-out Dependent Substitution, *European Journal of Operations Research*, Accepted.
- 3) Kalafat, İ., Hekimoğlu, M., Yücekaya, A. D., Ay, N., Gültekin, H., 2021. Workload Forecasting of Warehouse Stations: Comparison Between Classical Time Series Methods and XGBoost. *Data Science and Applications*, 4(2), 19-24.
- 4) Hekimoğlu, M., 2022. Markdown Optimization with Generalized Weighted Least Squares Estimation. *International Journal of Computational Intelligence Systems*, 15(1), 1-14.
- 5) Ulutan, D., İşler, Z., Kaya, B. E., Hekimoğlu, M., 2022. Optimum utilization of on-demand manufacturing and laser polishing in existence of supply disruption risk. *Manufacturing Letters*, 33, 17-28.
- 6) Hekimoğlu, M., Kök, A. G., Şahin, M., 2022. Stockout risk estimation and expediting for repairable spare parts. *Computers & Operations Research*, 138, 105562.
- 7) Yukseltan, E., Kok, A., Yucekaya, A., Bilge, A., Aktunc, E. A., & Hekimoğlu, M., 2022. The impact of the COVID-19 pandemic and behavioral restrictions on electricity consumption and the daily demand curve in Turkey. *Utilities Policy*, 76, 101359.
- 8) Kök, A., Yükseltan, E., Hekimoğlu, M., Aktunc, E. A., Yücekaya, A., & Bilge, A., 2022. Forecasting Hourly Electricity Demand Under COVID-19 Restrictions. *International Journal of Energy Economics and Policy*, 12(1), 73-85.
- 9) Schouten, T. N., Dekker, R., Hekimoğlu, M., Eruguz, A. S., 2022. Maintenance optimization for a single wind turbine component under time-varying costs. *European Journal of Operational Research*, 300(3), 979-991.
- 10) Savun-Hekimoğlu, B., Erbay, B., Hekimoğlu, M., Burak Z.S., 2021. Evaluation of Water Supply Alternatives for Istanbul Using Multi-Criteria Decision Making Methods, *Journal of Cleaner Production*, Vol. 287.
- 11) Hekimoğlu M., Ulutan D., 2020. Optimum laser polishing decision-making for on-demand additive manufacturing of spare parts: an exploratory study, *S.D.Ü. Fen Bilimleri Enstitüsü Dergisi*, 24(2): 516 - 525
- 12) Hekimoğlu, M., Aksezer, Ç., Sevim, İ, Durmuş, İ., 2019. Optimal Assortment Planning with Shelf-Space Constraint, *Journal of Retailing and Consumer Services*, V. 50, p.199-214.
- 13) Hekimoğlu, M., van der Laan, E., Dekker R., 2018. Spare Parts Inventory Control Under Markov Modulated Supply Risk, *European Journal of Operations Research*, V. 269(3), p 909-922.
- 14) Ekmiş, M.A., Hekimoğlu, M., Bülbül, B.A., 2017. Revenue Forecasting Using a Feed-Forward Neural Network and ARIMA Model, *Sigma Journal of Engineering and Natural Sciences* 8 (2), 129-134.
- 15) Hekimoğlu M., Barlas Y., 2016. Sensitivity Analysis for Models with Multiple Behavior Modes: A Method Based on Behavior Pattern Measures, *System Dynamics Review*, V. 32(3-4), p.332-362.
- 16) Li, X, Heij, C., Hekimoğlu, M., Dekker, R., 2016. Assessing End-of-Supply Risk of Spare Parts Using the Proportional Hazard Model, *Decision Sciences*, V. 47(2), p 373-394.
- 17) Saysel, A.K., Hekimoğlu, M., 2013. Exploring the Options for Carbon Dioxide Mitigation in Turkish Electric Power Industry: System Dynamics Approach, *Energy Policy*, V. 60, p 675-686.

PUBLICATIONS IN PIPELINE

- Hekimoğlu, M., Tuğcu, M., Karlı, D., Kılıç, C., Demirel, İ., Asymptotic Optimality of State-Dependent Tailored Base-Surge Policy in Existence of Nonstationary Demand and a 3D Printer, *to be submitted*.
- Hekimoğlu, M., Tuğcu, M., Karlı, D., Demirel, İ., Optimum Usage of 3D Printers in Existence of Supply Disruptions, *to be submitted*.
- Ma, A., Eruguz, A.S., Dekker R., Hekimoğlu, M., Pricing and inventory management with partially observable demand information and market competition, *to be submitted*.
- Hekimoğlu, M., Savun-Hekimoğlu B., Burak, S., Yücekaya A., Optimization of Wastewater Treatment Systems for Growing Industrial Parks, *to be submitted*.
- Ma, A., Hekimoğlu, M., Dekker, R., Admission Control for a Capacitated Supply System with Real-Time Replenishment Information, *International Journal of Production Economics*, 1st Round.
- Amniattalab, A., Frenk H., Hekimoğlu, M., On spare parts demand and installed base concept: a theoretical approach, *International Journal of Production Economics*, 1st Round.
- Amniattalab, A., Frenk H., Hekimoğlu, M., Generalized Last Time Buy Problem: An Application of Pseudo-deterministic Stopping Times to End-of-life Management, *to be submitted*.
- Amniattalab, A., Frenk H., Hekimoğlu, M., Modeling Nonstationary Spare Parts Demand: A Theoretical Model with Life Cycle Approach, *to be submitted*.

GRADUATE STUDENTS and POST-DOCTORAL RESEARCHERS

- Ipek Durmuş, Master of Science, Işık University, 2016
- Sevde Ceren Yıldız, Master of Science, Işık University, 2017
- Burak Erkan Kaya, Master of Science, Işık University, 2018
- Ali Kök, Master of Science, Kadir Has University, 2021 (Funded from TUBITAK 3501 Grant).
- Zülal İşler, Master of Science, Kadir Has University, 2021 (Funded from TUBITAK 1001 Grant).
- Burak Erkan Kaya, PhD, Kadir Has University, Ongoing (Funded from TUBITAK 1001 Grant).
- İrem Kalafat, PhD, Kadir Has University, Ongoing (Funded from 2244 Industrial PhD Program)
- Isaac Wahbi, PostDoc, Kadir Has University, 2021 (Funded from TUBITAK 1001 Grant)
- İhsan Demirel, PostDoc, Kadir Has University, Ongoing (Funded from TUBITAK 1001 Grant)

CONFERENCE PROCEEDINGS & PRESENTATIONS

- Hekimoğlu, M., 2010, Sensitivity Analysis of Oscillatory System Dynamics Models, *Proceedings of the 28th International Conference of the System Dynamics Society*, Seoul, Korea.
- Hekimoğlu, M. and Y. Barlas, 2010, Sensitivity Analysis of System Dynamics Models by Behavior Pattern Measures, *Proceedings of the 28th International Conference of the System Dynamics Society*, Seoul, Korea.
- Saysel, A. K. and M. Hekimoğlu, 2010, Dynamics of CO2 Mitigation in Electric Power Industry Through Replacements and Early Retirements, *Proceedings of the 28th International Conference of the System Dynamics Society*, Seoul, Korea.
- Hekimoğlu M., Dekker R., 2011, Value of Slow Moving Items Obtained From a Dismantled End Product, *10th Summer School by International Society for Inventory Research*, August 22-26, Istanbul, Turkey.

- Hekimoğlu M., Dekker R. 2012, Optimum Control Policy for Spare Part Inventory in Existence of Supply Risk and Secondary Market, *Book of Abstract of 17th International Symposium on Inventories*, August 20-24, Budapest, Hungary.
- Hekimoğlu M., Dekker R., 2013, Spare Parts Inventory Control Under Markov Modulated Supply Risk, *Book of Abstracts of 24th Annual Conference of Production and Operations Research Management Society*, May 3-6, Denver, Colorado.
- Hekimoğlu M., van der Laan, E., Dekker, R., 2013, Queuing Systems and Supply Chain Management: Inventory Control Under Markov Modulated Supply Risk, *Oral Presentation at 2013 INFORMS MSOM (Manufacturing and Service Operations Management) Conference*, 28-30 July, Fontainebleau, France.
- Hekimoğlu M., Scheller-Wolf A., 2014, Dual Sourcing Problem with Downward Substitution, *Book of Abstract of 18th International Symposium on Inventories*, August 18-22, Budapest, Hungary.
- Hekimoğlu M., Scheller-Wolf A., Dual Sourcing Problem with Stock-out Dependent Substitution, *Poster Presentation at INFORMS*, November 9-12, 2014, San Francisco, California.
- Hekimoğlu M., Kök, G., 2018, Stockout Risk Estimation and Repair Expediting for Repairable Spare Parts, *ISIR Symposium, Budapest, Hungary*.
- Hekimoğlu, M., Kök, G., 2019, Stockout Risk Estimation and Repair Expediting for Repairable Spare Parts, *INFORMS 2019, Seattle, US*.

TEACHING EXPERIENCE

- 2021 – 2022: Statistical Decision Making (English, Undergraduate), Kadir Has University.
- 2020 – 2021: Stochastic Processes (English, Graduate), Kadir Has University.
- 2018 – 2020: Data Analytics in Industrial Systems (English, Undergraduate), Kadir Has University.
- 2019 – 2020: Advanced Topics in IE: Machine Learning and Advanced Data Analytics, Kadir Has University.
- 2018 – 2020: Advanced Production Planning (English, Graduate), Kadir Has University.
- 2016 – 2017: Engineering Economy (English, Undergraduate), Işık University, Summer Term.
- 2016 – 2017: Engineering Economy (Turkish, Undergraduate), Işık University, Spring.
- 2015 – 2017: Introduction to Data Mining (English, Undergraduate), Işık University, Spring.
- 2015 – 2017: Stochastic Modeling (English, Graduate), Işık University, Spring.
- 2015 – 2017: Discrete- Event Simulation (English, Undergraduate), Işık University, Fall.
- 2011 – 2014: Production Planning and Scheduling (Graduate), Teaching assistant, Erasmus University.
- 2014 – 2015: Markov Processes (Undergraduate), Teaching assistant, Erasmus University.
- 2014 – 2015: Seminar Series on Supply Chain Management and Optimization (Undergraduate), Teaching assistant, Erasmus University.
- 2011-2012: Matrix Algebra (Undergraduate), Tutorial lecturer and teaching assistant, Erasmus University.
- 2010-2011: Systems Modeling for Environmental Dynamics, Teaching assistant, Boğaziçi University.

EDUCATION

- 2011 - 2015: PhD at Erasmus Research Institute of Management (ERIM), Erasmus University, Rotterdam / the NETHERLANDS.
- 2010 - 2011: MPhil in Business Research (Logistic Track), Erasmus Research Institute of Management, Erasmus University, Rotterdam / the NETHERLANDS.

- 2007 - 2010: M.S. Industrial Engineering, Boğaziçi University, Istanbul / TURKEY.
2003 - 2007: B.S. Industrial Engineering, Dokuz Eylül University, Izmir / TURKEY.

INDUSTRIAL EXPERIENCE

- 2015 - 2016: OBASE Software and Consulting, Technical Consultant and Project Manager, Istanbul.
2011 - 2015: Fokker Services, Graduate Consultant, Hoofddorp, Amsterdam/ the NETHERLANDS.
2007, 2 Months: Bosch Thermotechnik GmbH, Project Internship, Manisa / TURKEY.
2006, 1 Month: Z.F. Aks Modülleri Sanayii, Summer Internship, Izmir / TURKEY.

INDUSTRIAL PROJECTS & ACHIEVEMENTS

- 2019 : Seal of Excellence at SME Instrument Phase 1 Application for Invent Analytics, Academic Consultant
2020 : Seal of Excellence at SME Instrument Phase 2 Application for Invent Analytics, Academic Consultant
2018: Data-Centered Pricing Optimization for Retailers (Academic Consultant)
2017: Advanced Inventory Optimization for Repairable Spare Parts, Istanbul (Academic Consultant).
2016: Data Driven Spare Parts Inventory Optimization for Turkish Technic, Istanbul (Academic Consultant).
2016: Şok Supermarket Chains Replenishment System, Istanbul, (Project Manager, Scientific Consultant).
2015: Supply Risk Estimation Mechanism in Spare Parts Supply Chains for Services, Amsterdam, (Graduate Consultant).

VOLUNTEER EXPERIENCE

- 2008 - 2009: Volunteer Musician, Purple House Project, Turkish Society Volunteers, Istanbul / TURKEY.
2005 - 2006: Project Member, Starfish Project, Supporting Contemporary Life Association, Izmir / TURKEY.
2005 - 2007: Marketing and Sponsorship Committee Member, Turkey Quality Association, Perfection Seeking Symposium, Izmir / TURKEY.
2003 - 2004: Activity Volunteer (Volunteer Instructor), Educational Volunteers Association, Izmir / TURKEY.

MISCALLENOUS

- 2013 - 2013: Visitor Researcher at Tepper School of Business, Carnegie Mellon University, Pittsburgh, PA.