

Curriculum Vitae

Ece Cavusgil

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EDUCATION

Master of Science in Industrial Engineering
Hacettepe University

February 2025- ongoing

Master of Science in Statistics
Hacettepe University

September 2024

Graduated with GPA: 3.93 out of 4.00.

Advisor: Associate Professor Ayten Yigiter

Title and brief description of my thesis:

“Exponentially weighted moving average control graphs for processes with type i right-censored Weibull distribution.”

The lifetime data commonly encountered today is a type of data associated with multiple fields such as production and health. Life span data, especially in the production sector, is of great importance in measuring the reliability of the system. Regardless of the field, it is crucial to monitor and control the process to ensure the sustainability of the system. One of the major problems arising here is that the data generated within the guiding system for controlling the process may be censored due to cost or time constraints. In this case, the commonly used statistical process control methods lose their effectiveness in accurately conveying the system. In this thesis, the distribution parameters were estimated for censored data with Weibull distribution; EWMA control charts were created under different statistics developed for censored data. The performance of control over different parameter values and censorship rates was evaluated with a simulation study and an application was made on real- life data.

Bachelor of Engineering – Industrial Engineering
Baskent University

2015-2019

Graduated with GPA: 3.38 out of 4.00.

Advisor: Professor Yusuf Tansel Ic, Associate Professor Esra Dinler

Brief Overview: My undergraduate degree provided me with the discipline of systematic problem-solving. I learned such fundamental tools for design, analysis, and control processes. I also had the opportunity to participate in such experiential projects, and competitions and attended several seminars/congresses where I can improve myself professionally.

PROFESSIONAL EXPERIENCE

LUPE Consulting

SAP Consultant

December 2020 – February 2021

I was employed as a QM & PM modules consultant who make changes based on customer needs and specifications for their ERP system.

TAI - Turkish Aerospace Industries, Ankara

Project Team Leader ,Graduation Project

September 2018 – June 2019

As the leader of the team, we diagnosed and then developed a solution for the company's dynamic demand environment, taking into account lot size and safety stock levels.

TAI - Turkish Aerospace Industries, Ankara

Intern

January 2018 – February 2018

I served as an intern in the enterprise resource planning department. I was asked to observe the painting processes and prepare a formal report and recommendations. I also worked on a model where I used dynamic programming to improve this process.

FNSS Defense Systems, Ankara

Intern

June 2017 – July 2017

I served as a member of the Production Planning Team for a limited time. In this experience, I had the opportunity to examine the role of data and formal analysis for decision making, and I was able to develop a model for limited resources.

SKILLS

Leadership; problem diagnosis and solution development; debate; public speaking, communication, project management.

Technical: R Studio, SPSS, Minitab, MATLAB, C++, CPLEX, Arena Simulation, Super Decision, MS Project and, AutoCAD

ADDITIONAL INFORMATION

Professional Certificate: *Stock Management Certification Program*, Union of Chambers of Turkish Engineers and Architects, Ankara (2019)

Honors and Awards: *Graduated with Honors* from Baskent University - Industrial Engineering Department and ranked 3rd among graduating class.

My team placed 3rd in the annual case study competition organized by the Union of Chambers of Turkish Engineers and Architects, 2019.

Hobbies: Art history, music.

Languages: English, Turkish (native tongue), and Italian (beginner)

PUBLICATIONS

"An application for the problem of determining lot size and security stock with dynamic demand." 39. *Operations Research/Industrial Engineering National Congress*, (2019).

"EWMA control graphs for processes with Type I right-censored Weibull distribution." 8. *International Researches, Statisticians and Young Statisticians Congress* , (2024).

REFERENCES

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