

## **AYSEUR BETUL CENGIL**

### ***Ph.D. Candidate***

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### **EDUCATION:**

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**University of Arkansas**, Fayetteville, AR, USA

Ph.D. in Industrial Engineering, August 2020 – Ongoing (CGPA: 4.00/4.00)

**Ozyegin University**, Istanbul, Turkey

Master of Science in Industrial Engineering, August 2017 (CGPA: 3.87/4.00)

MSc Thesis: “Robust Scheduling for Parallel Machines with Sequence Dependent Setup Times and Uncertain Breakdowns “

<http://eresearch.ozyegin.edu.tr/xmlui/handle/10679/5884>

**Middle East Technical University**, Ankara, Turkey

Bachelor of Science in Industrial Engineering, June 2014 (CGPA: 3.19/4.00)

Senior Project: Decision Support System for The Plastic Injection Procurement Process

### **ACADEMIC EXPERIENCE:**

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**Graduate Research Assistant**, University of Arkansas (August 2020 – Ongoing)

- Research activities: *Data analytics, Statistical analysis, Machine learning* in healthcare and telehealth applications

**Instructor**, University of Arkansas

- Engineering Economic Analysis, Summer 2022, Course Evaluation Score: 4.74/5.00
  - Time value of money, comparing alternative investment options, income taxes and depreciation, and inflation

**Teaching Assistant, University of Arkansas**

- Statistics for Industrial Engineers II, Fall 2023
  - Modern statistical learning, nonlinear regression, tree-based methods, variable selection and dimension reduction, cross validation approaches, experimental design and anomaly detection for industry processes
- Engineering Economic Analysis, Fall 2021
- Engineering Economic Analysis, Spring 2021
  - Time value of money, comparing alternative investment options, income taxes and depreciation, and inflation

**Student Assistant, Middle East Technical University (Spring 2014)**

- Assistance for the course of Systems Thinking

**Student Assistant, Middle East Technical University (Fall 2013)**

- Assistance for the course of Work Systems Analysis and Design

**INDUSTRY EXPERIENCE:**

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**Product Services Engineer, Philip Morris International, Turkey, (March 2019 – July 2020)**

- Project management by coordinating new product launches
- Implementing feasibility studies by considering product portfolio, production capacity, and capability
- Conducting trials related to new projects, capability tests
- Providing a key contact point between the production facility and product development team

**System Development Specialist, Vestel Electronics, Turkey, (August 2017 – March 2019)**

- Management of planning processes
  - Defining and solving the problems by examining the existing processes
  - Developing and following up on new requirements
- Integrated planning project management
  - Integration of the main production facility, assembly lines, and other semifinished facility planning processes
- Design of planning tools on a software (plan control, order lot size, scheduling, capacity control, inventory management through this software)
- Design of planning software for different production facilities
- Algorithm solutions for line/machine scheduling problems

**Production Planning Specialist, Vestel Electronics, Turkey, (August 2014 – August 2017)**

- Material requirements planning, machine scheduling
- Short- and long-term production and warehouse capacity analysis
- Action plans for capacity shortages
- Inventory management
- Software integration for the implementation of machine scheduling

**PUBLICATION:**

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**Cengil A. B.,** Eksioglu B., Eksioglu S., Eswaran H., Hayes C. J., Bogulski C. A., 2023. “Insurance coverage for telehealth services and analysis of appointment scheduling metrics for selected healthcare specialties: A case study in Arkansas.”, Under review at the *Journal of Medical Internet Research*

Bogulski C. A., Rabbani M., Hayes C. J., **Cengil A. B.,** Shoults C. C., Eswaran H., 2023. “Rural Counties of the United States are Underrepresented in Measures of Consumer Broadband.” Under review at the *Journal of Medical Internet Research*

**Cengil A. B.,** Eksioglu B., Eksioglu S., Eswaran H., Hayes C. J., Bogulski C. A., 2023. “Using Data Analytics for Telehealth Utilization: A Case Study in Arkansas.”, *Journal of Telemedicine and Telecare*

**CONFERENCE:**

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Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting 2023, Phoenix AZ, Presenter

Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting 2022, Indianapolis IN, Presenter and Poster Presenter

Southeast Symposium on Contemporary Engineering Topics (SSCET) Annual Meeting 2022, Little Rock AR, Presenter and Poster Presenter

Institute of Industrial & System Engineers (IISE) Annual Conference & Expo 2022, Seattle WA, Presenter

**SCHOLARSHIP:**

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Reginald R. 'Barney' & Jameson A. Baxter Graduate Fellowship (Spring 2024)

AAIE G. Kent Burnett Scholarship, University of Arkansas (Fall 2023 - Spring 2024)

AAIE Bill and Margaret Harrison Scholarship, University of Arkansas (Fall 2023 - Spring 2024)

Eric Malstrom Endowed Memorial Scholarship, University of Arkansas (Fall 2023 - Spring 2024)

Industrial Engineering Department Fellowship, University of Arkansas (Spring 2023, Fall 2023)

IISE John L. Imhoff Scholarship (Fall 2022 - Spring 2023)

Carolyn Clark and Harold Langston Fellowship, University of Arkansas (Fall 2022)

AAIE G. Kent Burnett Scholarship University of Arkansas (2022)

AAIE Karen Taha Memorial AAIE Scholarship, University of Arkansas (2022)

Doctoral Student Travel Grant, University of Arkansas (Spring 2022, Fall 2023)

Arkansas Academy of Industrial Engineering Graduate Scholarship (Spring 2022)

Zorlu Holding Success Scholarship, Middle East Technical University (2009 – 2014)

**AWARD:**

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Winner of the INFORMS 2022 Student Chapter Annual Award as a Honorable Mention

Winner of the INFORMS 2021 Student Chapter Annual Award as a Cum Laude Chapter

Southeast Symposium on Contemporary Engineering Topics (SSCET) Annual Meeting 2022, Poster Competition, Second Place

Industrial Engineering Department Fellowship, University of Arkansas (Spring 2023)

Academic Excellence Award, University of Arkansas (2021-2022)

## **MEMBERSHIP:**

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Member of the Institute of Industrial and Systems Engineers (IISE)

Member of the Institute for Operations Research and the Management Sciences (INFORMS)

Member of Alpha Pi Mu, Tau Beta Pi and Society Collegiate Leadership and Achievement honor societies

Member of the Society of Women Engineers

Member of Ankara Volunteer Team (February 2013 – June 2014)

- Meeting weekly with children in low-income areas, studying with them to help their education, and encouraging these children on their future goals.

Board Member of METU Reading Society (2010)

- Organizing weekly meetings, selecting books to read with members, keeping a record of book discussions, and contributing to society with objective discussions to promote the inclusion of various people.

Member of IEEE METU Career Group (September 2009 – June 2010)

- Organization of career days on campus, conducting meetings with presenters from business and contributing to society with presentations of different career stories and recent industrial engineering applications.

## **SERVICE:**

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**Vice President**, INFORMS student chapter at the University of Arkansas, 2023 – 2024

**Secretary**, INFORMS student chapter at the University of Arkansas, 2022 – 2023

**Session Chair**, Institute of Industrial & System Engineers (IISE) Annual Conference & Expo 2022

## **COMPUTER SKILLS:**

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Programming Languages: Python, R

Optimization Tools: CPLEX, GAMS, AMPL

Database Management: SQL