MEHMETHAN ERDURAN

CURRICULUM VITAE

Research Assistant | Data Analyst
M&E Specialist | System Designer

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PROFILE

Research Assistant in Management Information Systems with complementary experience in data analytics, monitoring and evaluation, and information-system design. I combine Python, R, SQL, Power BI, social network analysis, programme evaluation, and explainable machine learning to turn complex data into clear academic and operational evidence. My current work focuses on academic collaboration networks, responsible AI, educational analytics, and data-informed institutional systems.

CORE EXPERTISE

- Python and R Statistical Analysis
- Power BI, Dashboards and Data Visualisation
- Monitoring, Evaluation, Accountability and Learning
- SQL, MySQL, Data Cleaning and Database Design
- Machine Learning, SHAP and Explainable AI
- Research Design, Survey Tools and Programme Reporting

CURRENT ACADEMIC APPOINTMENTS

Editor — **Apr 2026 - Present**
Journal of Emerging Minds in Undergraduate Research | Turkiye

Research Assistant in Management Information Systems — **May 2025 - Present**
Izmir Demokrasi University | Izmir, Turkiye

EDUCATION

MSc in Management Information Systems — **2025 - Present**
Izmir Demokrasi University | GPA 4.00

MSc in Management Information Systems — **2024 - 2025**
Ankara Yildirim Beyazit University | GPA 4.00

BA in Political Science and Public Administration — **2019**
Bilkent University | GPA 3.67 | Magna Cum Laude | Comprehensive Scholarship

Minor in Economics — **2019**
Bilkent University

Erasmus Exchange — **2018**
Leiden University | The Netherlands

PROFESSIONAL EXPERIENCE

Freelance System Designer
Mar 2024 - May 2025

Ixora Cosmetics | Remote

- Designed a MySQL database and migrated 15 years of cleaned historical records.
- Built an operational system for customer registration, inventory, real-time sales, returns, and headquarters ordering.
- Developed an Azure-based management panel and automated data exchange with sales applications.
- Designed a KVKK-compliant data collection and retention strategy and delivered user training.

Third-Party Monitoring Specialist
Jan 2023 - Dec 2023

International Advisory Products and Systems i-APS | Remote

- Prepared monitoring reports and corrective-action recommendations, including UNOCHA TPM reporting inputs.
- Coordinated with project stakeholders and Turkish partners to address non-compliance findings.
- Analysed large datasets in MySQL and developed efficient data-collection tools.
- Designed multi-sectoral monitoring tools for the Northwestern Syria context.

Monitoring Evaluation Accountability and Learning Officer
Sep 2019 - Dec 2022

Support to Life Hayata Destek Dernegi | Mersin, Turkiye

- Served as focal reporting officer for an ECHO protection project.
- Designed M&E frameworks, indicators, surveys, qualitative tools, and data-quality processes.
- Produced analytical reports to guide programme improvement and accountability.
- Led focus groups, needs assessments, and training for programme staff and partners.
- Supported MEAL standard operating procedures and KVKK-compliant data collection.

Teaching Assistant
Jan 2016 - Jan 2019

Bilkent University | Ankara, Turkiye

- Delivered Microsoft Office training, tutorials, and one-to-one academic support.
- Mentored new students and provided constructive assessment feedback.
- Redesigned course structure to improve learning effectiveness.

PUBLICATIONS

JOURNAL ARTICLES

1. Erduran, M., Kuzu Demir, E. B., & Demir, K. (2026). Explainable machine learning analysis of academic resilience among disadvantaged students in Türkiye using Programme for International Student Assessment 2022 data. *Discover Education, 5*, Article 825. https://doi.org/10.1007/s44217-026-02089-2

2. Erduran, M., & Demir, K. (2026). The academic structure of management information systems in Türkiye: A descriptive analysis of institutional distribution and co-authorship pattern. *International Journal of Computers in Education, 9*(1), 36-46. https://doi.org/10.64693/ijce.1963593

EDITORIALS

3. Demir, K., & Erduran, M. (2026). A home for emerging minds: Welcome to JEMUR's first issue. *Journal of Emerging Minds in Undergraduate Research, 1*(1), i-iv. https://doi.org/10.5281/zenodo.22144152

BOOK CHAPTERS

4. Erduran, M., & Demir, K. (2026). Yönetim bilişim sistemlerinde JEV (System One) ve LLM ile tamamlayıcı karar desteği. In S. Bulut (Ed.), *Yönetim bilişim sistemleri alanında uluslararası araştırmalar-V* (pp. 43-60). Eğitim Yayınevi. https://doi.org/10.5281/zenodo.23897865

5. Erduran, M., & Demir, K. (2026). Algorithmic human resource management: Bias mitigation, recruitment analytics, and performance prediction. In O. Kaynar & A. G. Yüksek (Eds.), *Artificial intelligence in business: Strategic transformation, functional applications, and future paradigms* (pp. 93-121). Livre de Lyon. https://doi.org/10.5281/zenodo.21855494

6. Erduran, M. (2025). Ethical and legal implications of AI-driven MIS solutions. In A. G. Yüksek & O. Kaynar (Eds.), *Information technologies in managerial decision-making: Foundations and application* (pp. 283-306). Livre de Lyon. https://doi.org/10.5281/zenodo.21855511

CONFERENCE PAPER

7. Erduran, M. (2026). Between algorithms and regulations: The regulated algorithmic public sphere as a theoretical framework for digital political participation - The case of Türkiye. In H. Demircioğlu (Ed.), *4th International Ege Congress on Scientific Research* (pp. 188-201). Liberty Academic Publishers. https://doi.org/10.5281/zenodo.21855862

   4th International Ege Congress on Scientific Research | Izmir, Turkiye | 23-25 January 2026

RESEARCH PROJECTS

Mapping Turkish Academic Collaboration Networks through Big Data and Social Network Analysis and Developing an Intelligent Recommendation System
Researcher | TÜBİTAK 1002-A | Project Code: 126K044 | 15 June 2026 - 15 April 2027 (10 Months)

Development and Effectiveness Evaluation of the Izmir Demokrasi University Scientific Research Projects Evaluation, Monitoring, and Management System
Researcher | Izmir Demokrasi University Scientific Research Projects | Project Code: HIZDEP-İİBF/2505 | 1 April 2026 - 30 May 2027 (12 Months)

TECHNICAL AND METHODOLOGICAL SKILLS

Data and Programming	Python, R, SQL, MySQL, SPSS, Data Cleaning, Database Design
Analytics and Visualisation	Power BI, Statistical Analysis, Dashboards, Data Visualisation, Social Network Analysis
Research and Evaluation	Research Design, M&E and MEAL Frameworks, Surveys, Qualitative Tools, Needs Assessment, Programme Reporting
Systems and Platforms	Microsoft Azure, KoboToolbox, OJS, HTML and CSS, JavaScript, SEO

SELECTED DIGITAL PROJECTS

jemur.org
OJS, PHP, MySQL, HTML/CSS, Python

akdenizsup.com.tr
HTML/CSS, JavaScript, Python, SEO

ikizlerkurutemizleme.com
HTML/CSS, JavaScript, Python, SEO

bookandbeyond.com.tr
HTML/CSS, JavaScript, Python

CERTIFICATIONS AND TRAINING

- Individual First Aid Kit training
- Prevention of Sexual Exploitation and Abuse
- Project Writing
- Data Quality
- Gender-Based Violence
- Data Visualisation and Effective Use of Social Media Platforms
- Child Safeguarding
- Power BI
- SPSS

LANGUAGES

Turkish • *Native*

English • *Advanced*