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Yunus Serhat Bıçakçı, PhD

Researcher

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I am a Visiting Postdoctoral Researcher at the [Jill Dando Institute of Security and Crime Science](#) at [University College London](#) and an Assistant Professor at the [Vocational School of Social Sciences](#) at [Marmara University](#). My research focuses on criminology, big data, machine learning, natural language processing, and spatial-temporal predictions.

I am particularly interested in data science, big data, artificial intelligence, information systems (e.g., GIS), criminology, geospatial analysis, and football. My ultimate goal is to use machine learning, deep learning, data science, and various analytics and visualization tools such as Python, R, and SQL to solve challenging real-world problems.

EDUCATION

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|---|---------|
| PostDoc The Jill Dando Institute of Security and Crime Science, <i>University College London (UCL)</i> | Present |
| PhD Applied Informatics (Geographical Information Technologies Program), <i>Istanbul Technical University</i> | 07/2021 |
| MSc Information Systems (Management Information Systems Program), <i>Sakarya University</i> | 07/2013 |
| BA Business Administration, <i>Anadolu University</i> | 07/2011 |

RECENT CERTIFICATES

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| TensorFlow Developer Certificate – Issued by: TensorFlow Certificate | 2022 – 2025 |
| Google Machine Learning Bootcamp Turkey – Study time: 5 months – Google Developers & inzva Certificate | 2022 |
| Deep Learning Specialization – Issued by: DeepLearning.AI Certificate | 2022 |
| TensorFlow Developer Specialization – Issued by: DeepLearning.AI Certificate | 2022 |
| Data Science and Machine Learning Bootcamp – Study time: 4.5 months – miuul.com Certificate | 2022 |

SKILLS

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| Programming Languages | Python, R, SQL |
| Soft Skills | Leadership, Supporting, Communication, Problem-Solving, Time Management, Creativity |
| Tools and Other | GIS, AI/ML Frameworks, Google Cloud, Docker, Kubernetes, Git, Project Management |

EXPERIENCE

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| Postdoctoral Researcher / Jill Dando Institute of Security and Crime Science, UCL – London, UK | 2023 — Present |
| <ul style="list-style-type: none">Conduct independent research and contribute to the advancement of knowledge in the field. This may involve designing and conducting experiments, analyzing data, writing and publishing research papers, and presenting findings at conferences and seminars. | |
| Assistant Professor / Vocational School of Social Sciences, Marmara University – Istanbul, Turkey | 2022 — 2023 |
| <ul style="list-style-type: none">Create lesson plans that cover the foundations of technology, guide students through activities that allow them to apply technological solutions to prepare work-life, hold office hours for students to answer questions and provide support.Teaching – – ILT2005: Media Literacy, BSP1005: Information and Communication Technology, ILT2006: Management Information Systems, BYS2034: Time Management, BSP2007–BSP1060: Office Programs | |
| Research Assistant / Vocational School of Social Sciences, Marmara University – Istanbul, Turkey | 2013 — 2022 |
| <ul style="list-style-type: none">Responsible for research related to my research interests, also leading group lessons, grading coursework, setting up student projects and aiding in the supervision of the students. | |
| Manager of Football Team / Vocational School of Social Sciences, Marmara University – Istanbul, Turkey (Part-Time) | 2014 — 2017 |
| <ul style="list-style-type: none">Managing the overall development and performance of the football team, including overseeing training and practice sessions, and developing and implementing strategies for games and competitions. Overall, my role as a coach is to lead and support the team in achieving their goals both on and off the field. | |

SELECTED PUBLICATIONS

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| ATTransUNet: Semantic Segmentation Model for Building Segmentation from Aerial Image and Laser Data. Yunus Serhat Bıçakçı, Beytullah Sarıca. <i>Nordic Machine Intelligence</i> . (in press) | 2023 |
| Artificial Intelligence Applications in Tourism and Travel Offices Yunus Serhat Bıçakçı, Bora Aksu. <i>Digital Transformation Dynamics in Tourism</i> , In Derya Semiz Celik (Ed.), <i>The Reflections of Digital Transformation on Tourism</i> (pp. 139-152). Istanbul, Turkey: Beta Publishing. | 2022 |
| Location-Based Analyses for Electronic Monitoring of Parolees , Yunus Serhat Bıçakçı, Dursun Zafer Seker, Hande Demirel. <i>ISPRS International Journal of Geo-Information</i> , 9(5), 296. | 2020 |
| Spatio-temporal analyses to estimate speed information for transport forecasting and scenario testing , Yunus Serhat Bıçakçı, Beytullah Sarıca, Mete Ercan Pakdil, Batuhan Yazırlı, Hande Demirel. <i>Fresenius Environmental Bulletin</i> , 26(1). | 2017 |

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RECENT TALKS

| | |
|---|---------|
| TensorFlow Basics – Google DSC Bandırma University Watch Link | 12/2022 |
| Introduction to Machine Learning – Google DSC Işık University Watch Link | 11/2022 |

OTHER SKILLS

University Service

- Editorial Board (The Social Research Journal of Marmara University)
- Journal Referee (International Humanities and Social Science Review)
- Administration (Member of Board of Department, Academic Process Manager of Department)

Football

- TFF Grassroots C Licence
- The FA Level 1 – Futsal Licence
- The FA Level 1– Talent Identification Licence
- The FA Level 7– Referee Licence

Martial Arts

- Taekwondo 2nd Dan Black Belt and Trainee Licence
- Kickboxing 1st Dan Black Belt and Trainee Licence
- Wushu 1st Dan Black Belt