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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

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

TensorFlow Developer Certificate – Issued by: TensorFlow   <a href="#">Certificate</a>	2022 – 2025
Google Machine Learning Bootcamp Turkey – Study time: 5 months – Google Developers & inzva   <a href="#">Certificate</a>	2022
Deep Learning Specialization – Issued by: DeepLearning.AI   <a href="#">Certificate</a>	2022
TensorFlow Developer Specialization – Issued by: DeepLearning.AI   <a href="#">Certificate</a>	2022
Data Science and Machine Learning Bootcamp – Study time: 4.5 months – miuul.com   <a href="#">Certificate</a>	2022

## SKILLS

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

Postdoctoral Researcher / Jill Dando Institute of Security and Crime Science, UCL – London, UK	2023 — Present
<ul style="list-style-type: none"><li>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.</li></ul>	
Assistant Professor / Vocational School of Social Sciences, Marmara University – Istanbul, Turkey	2022 — 2023
<ul style="list-style-type: none"><li>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.</li><li>Teaching – – ILT2005: Media Literacy, BSP1005: Information and Communication Technology, ILT2006: Management Information Systems, BYS2034: Time Management, BSP2007–BSP1060: Office Programs</li></ul>	
Research Assistant / Vocational School of Social Sciences, Marmara University – Istanbul, Turkey	2013 — 2022
<ul style="list-style-type: none"><li>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.</li></ul>	

## SELECTED PUBLICATIONS

Big Data Usage Opportunities for Interactive Crime Mapping Yunus Serhat Bıçakçı, Alina Ristea, Kate Bowers. <i>New Research in Crime Modeling and Mapping Using Geospatial Technologies</i> , In Michael Lietner (Ed.), Geotechnologies and the Environment series, Springer. (in preparation)	2024
Using Big Data, Artificial Intelligence and Cloud Technologies for Interactive Crime Mapping. Yunus Serhat Bıçakçı, Alina Ristea, Kate Bowers. <i>Stockholm Criminology Symposium</i> – <a href="#">link</a>	2023
ATTransUNet: Semantic Segmentation Model for Building Segmentation from Aerial Image and Laser Data. Yunus Serhat Bıçakçı, Beytullah Sarıca. <i>Nordic Machine Intelligence</i> , 2(3). – <a href="#">link</a>	2022
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.), The Reflections of Digital Transformation on Tourism (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. – <a href="#">link</a>	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

<b>TensorFlow Basics</b> – Google DSC Bandırma University   <a href="#">Watch Link</a>	12/2022
<b>Introduction to Machine Learning</b> – Google DSC Işık University   <a href="#">Watch Link</a>	11/2022

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## 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 – Introduction to Coaching Football
- The FA Level 1 – Futsal Licence
- The FA Level 1 – Talent Identification Licence
- The FA – Introduction to First Aid in Football
- The FA – Safeguarding Children Course
- 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