

Yunus Serhat Bıçakçı, PhD

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Researcher

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I am a 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, and geospatial analysis. My ultimate goal is to use machine learning, deep learning, data science, and various analytics and visualization tools like Python, R, and SQL to solve challenging real-world problems.

EDUCATION

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

RECENT CERTIFICATES

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

Programming Languages	Python, R, SQL
Soft Skills	Leadership, Supporting, Communication, Problem-Solving, Time Management, Creativity
Tools and Other	GIS, AI/ML Frameworks, Google Cloud, Git, GNSS, Project Management
Libraries	Tensorflow, PyTorch, Keras, Pandas, OpenCV, Scikit-learn, Numpy

EXPERIENCE

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.	

SELECTED PUBLICATIONS

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). –DOI	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. –DOI	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). –Link	2017

SELECTED BOOK CHAPTERS

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
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

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SELECTED CONFERENCES

- Using Big Data, Artificial Intelligence and Cloud Technologies for Interactive Crime Mapping.** Yunus Serhat Bıçakçı, Alina Ristea, Kate Bowers. *Stockholm Criminology Symposium* –[link](#) 2023
- Using Natural Language Processing Techniques in Detecting Reports of Crime in Text Data.** Yunus Serhat Bıçakçı, Alina Ristea, Kate Bowers. *ECCA 2023* –[link](#) 2023
- Artificial Intelligence Applications for Social Municipality: The Case of Chatbot.** Yunus Serhat Bıçakçı. *The 6th Civil Strategy Symposium* –[link](#) 2022

RECENT TALKS

- Foundations of Convolutional Neural Networks** – Google ML Bootcamp 2023 & inzva | [Website](#) 07/2023
- TensorFlow Basics** – Google DSC Bandırma University | [Watch Link](#) 12/2022
- Introduction to Machine Learning** – Google DSC Işık University | [Watch Link](#) 11/2022