Kahraman Kostas

PHD IN COMPUTER SCIENCE

Ankara, Türkiye

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Education

Heriot-Watt University

Edinburgh, UK

DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE

2019-2024

• Thesis Title: Behaviour-based Security with Machine Learning on IoT Networks | Working on IoT security during my PhD focused on solving device identification and intrusion detection problems in IoT networks with classical machine learning and deep learning methods by observing network behaviours.

University of Essex

Colchester, UK

MASTER OF SCIENCE IN COMPUTER NETWORKS AND SECURITY, WITH DISTINCTION

2017 - 2018

- Qualifications:, IP Networking and Applications, Computer Security, Converged Networks and Services, Mobile Communications, Networks Laboratory, Network Security, Professional Practice and Research Methodology, MSc Project And Dissertation
- Thesis Title: Anomaly Detection in Networks Using Machine Learning 🔾

Anadolu University

Eskişehir, Turkey

BACHELOR OF ART IN TURKISH LANGUAGE AND LITERATURE, GPA: 3.41

2012 - 2015

It is an undergraduate program focusing on the linguistic, literary and cultural aspects of the Turkish language. Students participate in a curriculum that explores
the evolution of Turkish literature, develops language proficiency and fosters a nuanced understanding of Turkish cultural heritage.

Marmara University

Istanbul, Turkey

BACHELOR OF SCIENCE IN COMPUTER EDUCATION AND INSTRUCTIONAL TECHNOLOGY, GPA: 74.74

2005-2009

• Qualifications: Information Technology in Education, Computer Hardware, Programming Languages, Computer Networks & Communications, Operating Systems and Applications, Instructional Technology and Material Development, Authoring Languages for the Internet, Flash and Web Design, Internet Applications in Education, Design of Educational Computer Games, Authoring Languages for PC.

Experience ____

Turkish Ministry of National Education

Ankara, Turkey

NATIONAL EDUCATION SPECIALIST

Sept. 2024 - Present

· Developing educational applications for students living abroad.

Heriot-Watt University

Edinburgh, UK

PHD Candidate / Teaching Assistant

Oct 2019 - Jan 2021

- Teaching assistant and lab demonstrator of Data Communications and Networking
- Teaching assistant and lab demonstrator of Computer Network Security
- Teaching assistant and lab demonstrator of Advanced Network Security
- Teaching assistant and lab demonstrator of Software Development 1(Java)

Huawei UK Edinburgh R&D

Edinburgh, UK

RESEARCH INTERN

THE CONTRACTOR OF THE CONTRACT

Feb 2022 - Aug 2022

- Creating solutions to indoor positioning problems with machine learning methods
- Distance estimating using WiFi fingerprinting
- Community detection using WiFi distances

Turkish Ministry of National Education

Manisa, Turkey

TEACHER TRAINER

Sept. 2013 - Jan. 2016

- Teaching teachers how to use interactive board and board software and practicing the use of materials.
- · Teaching teachers about using online/offline software, electronic materials and applications in their field.
- Teaching teachers about network technologies and network security issues.

Turkish Ministry of National Education

Manisa, Turkey

COMPUTER TEACHER AND TECHNOLOGY CONSULTANT

Sept. 2009 - Jan. 2016

- Developing and implementing an effective computer-based curriculum.
- · Assigning, assisting, and grading students on computer projects.
- Monitoring, assessing, and documenting student progress.
- Teaching computer fundamentals and programming language to students.

Skills _

Programming Languages Frameworks & Libraries alytical Tools & Platforms

Programming Languages Advanced (Daily user): Python, Tex Intermediate (Used in several projects): Java, Julia, R, C, C++, ns2

Frameworks & Libraries Jupyter, Matplotplib, Numpy, Pandas, NLTK, Scikit-learn, Scapy, Tensorflow, Keras, PyTorch

Analytical Tools & Platforms SAS Viya, SAS Studio, SAS Visual Analytics, Model Studio, Base SAS Programming

Languages Native: Turkish Fluent: English Beginner: Arabic

Licenses & Certifications _____

	Machine Learning and Data Analytics Certifications with SAS Viya, Various certifications offered by SAS:	
2025	SAS Viya Introduction, SAS Programming (1 and 2), SAS Visual Analytics (1 and 2), Model Management,	Turkey
	Machine Learning.	
2020	Learning Enhancement and Development Skills (LEADS), Associate Fellow of the Higher Education	UK
	Academy –AFHEA.	
2020	Neural Networks and Deep Learning, Coursera.	UK
2020	Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Coursera.	UK
2020	Introduction to Reinforcement Learning in Python, Coursera.	UK
2019	Julia for Data Scientists First Look, LinkedIn	UK
Hono	rs & Awards	
	Recipient , YLSY - Full scholarship, provided by the Turkish Ministry of National Education, covers graduate	
2016	study and living expenses 🗗	Turkey
	1st Place , the Huawei UK University Challenge Competition 2021 – a hackathon involves solving indoor	
2021	positioning problems using data science methods. Won £7000/2 prize.	UK
	6th Place , Finalist of the Huawei Tech Arena - Enter The Metaverse (6th position -Best Al approach) Solving	
2022	3D graphics compression for efficient Metaverse architecture. 🗘 🗹	UK
Refer	ences	
PhD		
Superviso	Mike Just , Associate Professor – Mathematical and Computer Sciences, M.Just@hw.ac.uk r	HWU, UK
PhD	Michael Lance Associate Drefessor, Methomatical and Computer Sciences, M. Lance Churce, Uk	
Superviso	Michael Lones, Associate Professor – Mathematical and Computer Sciences, M.Lones@hw.ac.uk r	HWU, UK
Internship	Firas Alsehly, Director of Positioning & Navigation – Huawei Tech. R&D (UK) Ltd, firas.alsehly@huawei.com	Huawei, UK
Superviso		
Publi	cations	
	Individual Packet Features are a Risk to Model Generalisation in ML-Based Intrusion Detection.,	
2025	Kahraman Kostas , Mike Just, and Michael A. Lones. IEEE Networking Letters.	Q1
	Semantic Verbal Fluency in Native Speakers of Turkish: A Systematic Review of Category Use, Scoring	
2024	Metrics and Normative Data in Healthy Individuals., Rabia Yasa Kostas, Kahraman Kostas, Sarah E.	Q2
	MacPherson, and Maria K. Wolters. Journal of Clinical and Experimental Neuropsychology.	~
Under	GeMID: Generalizable Models for Device Identification in IoT Networks., Kahraman Kostas, Rabia Yasa	
Review	Kostas, Mike Just, and Michael A. Lones. Internet of Things Journal Ω	Q1
Under	IoTGeM: Generalizable Models for Behaviour-Based IoT Attack Detection., Kahraman Kostas, Mike Just,	
Review	and Michael A. Lones. Computer Networks Journal 🖸 🗹	Q1
2022	IoTDevID: A behavior-based device identification method for the IoT, Kahraman Kostas, Mike Just, and	
	Michael A. Lones. IEEE Internet of Things Journal 9.23 (2022): 23741-23749. 🗘 🖸	Q1
	WiFi Based Distance Estimation Using Supervised Machine Learning., Kahraman Kostas, Rabia Yasa	
	Kostas, Francisco Zampella; Firas Alsehly. 2022 IEEE 12th International Conference on Indoor Positioning	-
	and Indoor Navigation (IPIN). IEEE. 🗖 🗹	