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 _

Heriot-Watt University

Edinburgh, UK Oct 2019 - Jan 2021

PHD CANDIDATE / TEACHING ASSISTANT

- 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

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

Sept. 2009 - Jan. 2016

COMPUTER TEACHER AND TECHNOLOGY CONSULTANT

- 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 Advanced (Daily user): Python, MEX Intermediate (Used in several projects): Java, Julia, R, C, C++, ns2 Frameworks & Libraries Jupyter, Matplotplib, Numpy, Pandas, NLTK, Scikit-learn, Scapy, Tensorflow, Keras, PyTorch Languages Native: Turkish Fluent: English Beginner: Arabic

Licen	ses & Certifications	
2020	Learning Enhancement and Development Skills (LEADS), Associate Fellow of the Higher Education Academy –AFHEA.	UK
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	
2016	Recipient , YLSY - Full scholarship, provided by the Turkish Ministry of National Education, covers graduate study and living expenses 🗷	Turkey
2021	1st Place , the Huawei UK University Challenge Competition 2021 – a hackathon involves solving indoor positioning problems using data science methods. Won £7000/2 prize. ○ ▶	UK
2022	6th Place , Finalist of the Huawei Tech Arena - Enter The Metaverse (6th position -Best AI approach) Solving 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 Superviso	Michael Lones , Associate Professor – Mathematical and Computer Sciences, M.Lones@hw.ac.uk	HWU, UK
Internship Superviso	Firas Alsehly, Director of Positioning & Navigation – Huawei Tech, R&D (UK) Ltd, firas.alsehly@huawei.com	Huawei, UK
Publi	cations	
	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. MacPherson, and Maria K. Wolters. Journal of Clinical and Experimental Neuropsychology.	Q2
Under	IoTGeM: Generalisable Models for Behaviour-Based IoT Attack Detection., Kahraman Kostas, Mike Just,	0.1
Review	and Michael A. Lones. IEEE Transactions on Dependable and Secure Computing. 🖸 🗹	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. \bigcirc	Q1
	WiFi Based Distance Estimation Using Supervised Machine Learning., Kahraman Kostas, Rabia Yasa	

2022 Kostas, Francisco Zampella; Firas Alsehly. 2022 IEEE 12th International Conference on Indoor Positioning

and Indoor Navigation (IPIN). IEEE. 🔿 🗹