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

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 _

Review

2022

2022

Programming Languages Advanced (Daily user): Python, MFX Intermediate (Used in several projects): Java, Julia, R, C, C++, ns2 Jupyter, Matplotplib, Numpy, Pandas, NLTK, Scikit-learn, Scapy, Tensorflow, Keras, PyTorch Frameworks & Libraries Languages Native: Turkish Fluent: English Beginner: Arabic **Licenses & Certifications** Learning Enhancement and Development Skills (LEADS), Associate Fellow of the Higher Education 2020 UK Academy - AFHEA. Neural Networks and Deep Learning, Coursera. 2020 UK Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, 2020 UK Introduction to Reinforcement Learning in Python, Coursera. 2020 UK Julia for Data Scientists First Look, LinkedIn 2019 UK **Honors & Awards** Recipient, YLSY - Full scholarship, provided by the Turkish Ministry of National Education, covers graduate 2016 Turkey study and living expenses 🗹 1st Place, the Huawei UK University Challenge Competition 2021 - a hackathon involves solving indoor 2021 UK positioning problems using data science methods. Won £7000/2 prize. 🔾 🕊 6th Place, Finalist of the Huawei Tech Arena - Enter The Metaverse (6th position -Best Al approach) Solving 2022 UK 3D graphics compression for efficient Metaverse architecture. 🗘 🗹 References Mike Just, Associate Professor - Mathematical and Computer Sciences, M.Just@hw.ac.uk HWU, UK Supervisor PhD Michael Lones, Associate Professor - Mathematical and Computer Sciences, M.Lones@hw.ac.uk HWU, UK Supervisor Internship Firas Alsehly, Director of Positioning & Navigation - Huawei Tech. R&D (UK) Ltd, firas.alsehly@huawei.com Huawei, UK **Publications** Semantic Verbal Fluency in Native Speakers of Turkish: A Systematic Review of Category Use, Scoring Metrics and Normative Data in Healthy Individuals., Rabia Yasa Kostas, Kahraman Kostas, Sarah E. 2024 MacPherson, and Maria K. Wolters. Journal of Clinical and Experimental Neuropsychology. IoTGeM: Generalisable Models for Behaviour-Based IoT Attack Detection., Kahraman Kostas, Mike Just, Under

and Michael A. Lones. IEEE Transactions on Dependable and Secure Computing. \bigcirc

Michael A. Lones. IEEE Internet of Things Journal 9.23 (2022): 23741-23749. 🗘 🗗

and Indoor Navigation (IPIN). IEEE. 🗘 🔀

IoTDevID: A behavior-based device identification method for the IoT, Kahraman Kostas, Mike Just, and

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