

Kahraman Kostas

PHD CANDIDATE

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Education

Heriot-Watt University

Edinburgh, UK

DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE

2019- Present

- **Research Topic:** *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 topic :** *Anomaly Detection in Networks Using Machine Learning* 🏆

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

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

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

Licenses & 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

Honors & 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

References

PhD Supervisor	Mike Just , Associate Professor – Mathematical and Computer Sciences, M.Just@hw.ac.uk	HWU, UK
PhD Supervisor	Michael Lones , Associate Professor – Mathematical and Computer Sciences, M.Lones@hw.ac.uk	HWU, UK
Internship Supervisor	Firas Alsehly , Director of Positioning & Navigation – Huawei Tech. R&D (UK) Ltd, firas.alsehly@huawei.com	Huawei, UK