

# 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*

### The University of Texas at Austin

Texas, USA

ACADEMIC ENGLISH PROGRAM

July - December 2016

### Anadolu University

Eskişehir, Turkey

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

2012 - 2015

- **Qualifications:** *Literary Movements in Western Literature, Turkish Phonology, Turkish Morphology, VIII – XIII Centuries of Turkish Literature, Orkhon Turkish, Turkish Syntax, XIV - XV Centuries of Turkish Literature, The Tanzimat Period of Turkish Literature, Ottoman Turkish Grammar, Modern Turkish Written Languages, General Linguistics, The Second Constitutional Period of Turkish Literature, Turkish Poetry in the Republican Period, Turkish Prose in the Republican Period, The History of Literary Criticism, Contemporary Turkish Novel, Contemporary Turkish Literature.*

### 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

COMPUTER TEACHER AND TECHNOLOGY CONSULTANT

Manisa, Turkey

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, 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	<b>Learning Enhancement and Development Skills (LEADS)</b> , Associate Fellow of the Higher Education Academy –AFHEA.	UK
2020	<b>Neural Networks and Deep Learning</b> , Coursera.	UK
2020	<b>Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization</b> , Coursera.	UK
2020	<b>Introduction to Reinforcement Learning in Python</b> , Coursera.	UK
2019	<b>Julia for Data Scientists First Look</b> , LinkedIn	UK

## Honors & Awards

2016	<b>Recipient</b> , YLSY - Full scholarship, provided by the Turkish Ministry of National Education, covers graduate study and living expenses	Turkey
2021	<b>1st Place</b> , the Huawei UK University Challenge Competition 2021 – a hackathon involves solving indoor positioning problems using data science methods. Won £7000/2 prize.	UK
2022	<b>6th Place</b> , 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 Advisor	<b>Mike Just</b> , Associate Professor – Mathematical and Computer Sciences, M.Just@hw.ac.uk	HWU, UK
PhD Advisor	<b>Michael Lones</b> , Associate Professor – Mathematical and Computer Sciences, M.Lones@hw.ac.uk	HWU, UK