

Ranya Aloufi

📧 <https://ranyajumah.github.io/> ✉ Ra6018@imperial.ac.uk ☎ 7943662030 🌐 ranyajumah in RanyaJumah 🐦 RanyaAloufi

EDUCATION

Imperial College London, Design Engineering

Doctor of Philosophy

Thesis: Preserving Privacy from the Edge for Internet of Things

London, United Kingdom
Jan 2019 - Expected January 2023

University of Leicester, School of Informatics

Master of Advanced Computer Science (with Distinction)

Thesis: Using BLE Technology to Enhance Student Experience

Relevant Coursework: Advanced System Design, Internet and Cloud Computing, Web Technologies, Service-Oriented Architectures, Distributed Systems and Applications

Leicester, United Kingdom
Jan 2017 - May 2018

Taibah University, College of Computer Science and Engineering

Bachelor of Computer Science (Excellent with First Class Honors)

Thesis: Crowd Density Estimation System

Relevant Coursework: Programming, Algorithms and Data Structures, Computer Organization and Architecture, Computer Networks, Database Systems, Computer Security

Medina, Saudi Arabia
Aug 2008 - May 2012

EXPERIENCE

Teaching

Lecturer

Oct 2018 - Present

Taibah University

- **Designed and taught several computer science courses:** software analysis and modeling, introduction to software engineering, and intelligent systems
- **Administration:** student supervision, course coordinator, member of exams investigating committee, member of graduation planning committee

Teacher Assistant

Feb 2014 - Oct 2018

Taibah University

- **Designed and taught several computer science courses:** computer skills and programming (Java)
- **Technical:** managing and coordinating training courses for the community college faculty members

Designing

Web Developer

Nov 2012 - Jan 2014

Taibah University

- **Developed RESTful web services:** Press File service for Taibah University using RSS technology
- **Improved and maintained a variety of legacy services:** inventory and messaging services for IT Deanship

Training

International Computer Driving License Trainer

Jun 2012 - Nov 2012

Al Jazeera Institute

- **Responsible for providing various training courses:** basic computer skills in MS office

RESEARCH INTERESTS

My research interests lie mainly in Internet of Things (IoT), Deep Learning, Privacy, and their intersection. In particular I'm interested in preserving privacy in IoT. Recently I've been interested in preventing companies from collecting emotion data about users from voice-controlled applications.

PUBLICATIONS

- **Emotionless: Privacy-Preserving Speech Analysis for Voice Assistants**, in Privacy Preserving Machine Learning, ACM CCS 2019 Workshop, November 2019, London, UK.
- **Emotion Filtering at the Edge**, in the 1st Workshop on Machine Learning on Edge in Sensor Systems (Sensys-ML), in conjunction with ACM SenSys 2019, November 2019, New York, USA.
- **Poster: Privacy-Preserving Speech Analysis using Emotion Filtering at the Edge**, in conjunction with ACM SenSys 2019, November 2019, New York, USA.

AWARDS

- (2019) Awarded Black Hat Europe Student Scholarship (750 £)
- (2019) Awarded Best Poster at ACM SenSys/BuildSys
- (2019) Awarded ACM SenSys/BuildSys Travel Grant (1000 \$)
- (2012) First Level Position (Gold Feather) Project, at "Third scientific conference for higher education students in Kingdom of Saudi Arabia" among 34 universities and over 160 scientific research in science and engineering

SKILLS

- **Technical**

Languages: Python, C++, C#, Java, JavaScript

Databases: MySQL, NoSQL, Apache Hadoop

Web Development: HTML, CSS/Bootstrap, jQuery, XML, JSON, JSP, Asp.Net, Spring MVC

Deep Learning Frameworks: TensorFlow, PyTorch, Keras, Jupyter

VOLUNTEER EXPERIENCE

- (2019-Present) Member of Knowledge platform project for e-learning courses
- (2019-Present) Member of Saudi Society at Imperial College London
- (2017-2018) Member of Saudi Society at the University of Leicester