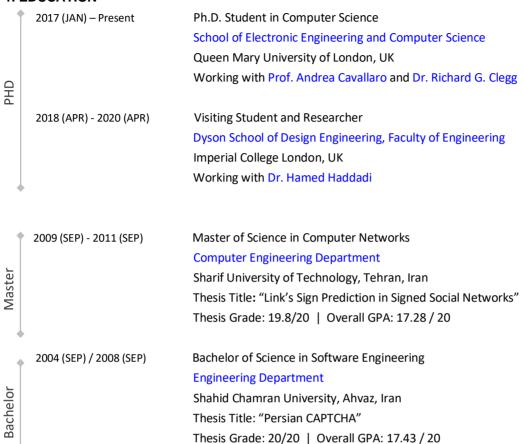# Mohammad Malekzadeh (Ph.D. Candidate in Computer Science)

E-mail: m.malekzadeh@imperial.ac.uk | Webpage: malekzadeh.uk | GitHub: http://github.com/mmalekzadeh

Google Scholar: https://scholar.google.co.uk/citations?user=xZr9WQMAAAAJ&hl=en

1. EDUCATION

PHD

2017 (JAN) – Present	Ph.D. Student in Computer Science
	School of Electronic Engineering and Computer Science
	Queen Mary University of London, UK
	Working with Prof. Andrea Cavallaro and Dr. Richard G. Clegg
2018 (APR) - 2020 (APR)	Visiting Student and Researcher
	Dyson School of Design Engineering, Faculty of Engineering
	Imperial College London, UK
	Working with Dr. Hamed Haddadi

Master

2009 (SEP) - 2011 (SEP)	Master of Science in Computer Networks
	Computer Engineering Department
	Sharif University of Technology, Tehran, Iran
	Thesis Title: "Link's Sign Prediction in Signed Social Networks"
	Thesis Grade: 19.8/20	Overall GPA: 17.28 / 20

Bachelor

2004 (SEP) / 2008 (SEP)	Bachelor of Science in Software Engineering
	Engineering Department
	Shahid Chamran University, Ahvaz, Iran
	Thesis Title: "Persian CAPTCHA"
	Thesis Grade: 20/20	Overall GPA: 17.43 / 20

2. EMPLOYMENT

2019 (JUN) – 2019 (SEP)	**PhD Intern in Machine Learning at Brave Research (Brave.com/Research)**
	Brave Software, London, UK
2018 (APR) – 2018 (NOV)	**Research Assistant in Databox Project (databoxproject.uk)**
	Imperial College London, UK
2017 (NOV) – 2020 (APR)	**Teacher Assistant (Demonstrator)**
	Imperial College London & Queen Mary University of London, UK
2014 (FEB) – 2016 (DEC)	**Head of Information and Communication Technology Institute (PGU)**
	Persian Gulf University, Bushehr, Bushehr, Iran
2012 (JAN) – 2016 (DEC)	**Lecturer in Computer Engineering (PGU)**
	Persian Gulf University, Bushehr, Bushehr, Iran
2016 (JUN) – 2016(SEP)	**Software Engineer at ChetorPro (ChetorPro)**
	Business Engineering 360 (BE360.ir), Iran
2014 (SEP) – 2016(FEB)	**Software Engineer at Shanab (Shanab)**
	Persian Gulf University, Bushehr, Bushehr, Iran
2010 (JAN) – 2011 (SEP)	**Research Assistant in Data Science and Digital Media Lab (DML)**
	Sharif University of Technology, Iran.

3. AREA OF INTERESTRS and EXPERTIES

- **Present:** From 2017, I have been working on "Machine Learning Systems and Algorithms for Privacy-Preserving Personal Data Analytics", particularly for time-series data. I have been working on the design and implementation of algorithms for locally processing temporal data generated by mobile and wearable devices.
- **Past:** I had been interested in Machine Learning and Data Mining as well as Software Engineering. In my research career, I have had the opportunity to work on: *Complex Information and Social Networks, Data Mining, Game Theory and its Applications, Statistical Modeling, Software Development Principles and Management.*

4. PUBLICATIONS

- 2020: **Mohammad Malekzadeh**, Dimitrios Athanasakis, Hamed Haddadi, Benjamin Livshits. **Privacy-Preserving Bandits.** The Third Conference on Machine Learning and Systems (MLSys), Austin, USA.

- 2020: **Mohammad Malekzadeh**, Richard G. Clegg, Andrea Cavallaro, and Hamed Haddadi. **Privacy and Utility Preserving Sensor-Data Transformations**. Pervasive and Mobile Computing Journal, Elsevier.

- 2020: Edoardo Lisi, **Mohammad Malekzadeh**, Hamed Haddadi, F. Din-Houn Lau, Seth Flaxman. **Modeling and Forecasting Art Movements with CGANs.** Royal Society Open Science Journal, The Royal Society.

- 2019: **Mohammad Malekzadeh**, Richard G. Clegg, Andrea Cavallaro, and Hamed Haddadi. **Mobile Sensor Data Anonymization**. The 4th ACM/IEEE International Conference on Internet-of-Things Design and Implementation, Montreal, Canada.

- 2018: **Mohammad Malekzadeh**, Richard G. Clegg, Andrea Cavallaro, and Hamed Haddadi. **Protecting Sensory Data against Sensitive Inferences**. In Proceedings of the 1st EuroSys Workshop on Privacy by Design in Distributed Systems, Porto, Portugal.

- 2018: **Mohammad Malekzadeh**, Richard G. Clegg, and Hamed Haddadi. **Replacement AutoEncoder: A Privacy-Preserving Algorithm for Sensory Data Analysis**. The 3rd ACM/IEEE International Conference on Internet-of-Things Design and Implementation, Orlando, Florida, U.S.A.

- 2017: Reza Gharibi, **Mohammad Malekzadeh**, **Gamified Incentives: A Badge Recommendation Model to Improve User Engagement in Social Media Sites**, International Journal of Advanced Computer Science and Applications 8(5), 2017.

- 2014: Marziyeh Barghandan, **Mohammad Malekzadeh**, Atefeh Safdel and Iren Mazloomzadeh, **A Multi-Generational Social Learning Model: the Effect of Information Cascade on Aggregate Welfare**, the 2014 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) 2014, Beijing, China.

- 2011: **Mohammad Malekzadeh**, MohammadAmin Fazli, Pooya Jalaly Khalilabadi, Hamid R. Rabiee, MohammadAli Safari, **Social Balance and Signed Network Formation Games**, The 5th SNA-KDD Workshop, San Diego CA, USA.

- 2008: **Mohammad Malekzadeh** and Mehdy Bohlool, **Persian CAPTCHA system to prevent automatic subscribing of software robots in web pages**, 13th National CSI Computer Science, Kish, Iran, 2008.

Technical Reports, Abstracts, Etc.
- 2019: **"Fairness in Algorithmic Decision Making".**
- 2018: **"Privacy-Preserving Sensor Data Analysis for Edge Computing".**
- 2017: **"Towards Privacy-Preserving IoT Data Publishing"**

5. TEACHING EXPERIENCES

- o Teacher Assistant of an undergraduate course (Sensing and IoT), 2018-2019 at Imperial College London.
- o Teacher Assistant of a graduate course (Data Analytics), and two undergraduate courses (Software Engineering, and Computer Security), 2017-2019 at Queen Mary University of London.
- o Teacher of "Fundamental Of Programming (C Language)", "Computer Architecture", "Operating Systems Concepts", "Software Engineering", "Advanced Programming (Java Language), "Numerical Analysis", "Technical and Scientific Presentation", "Complex and Dynamical Networks", and "Operating Systems Lab", 2011-2016, at Persian Gulf University

6. TECHNICAL SKILLS

- o **Machine Learning:** Python, Tensorflow, Keras, PyTorch, NumPy, SciPy, Scikit-Learn, Pandas;
- o **Software Engineering Experiences:**
    - o **Web Development**, familiar with HTML, CSS, JavaScript, AngularJS, NodeJS, Laravel Framework;
    - o **Database**, familiar with MySQL and MongoDB
    - o **Architecture and Design**, I have designed small to mid-sized systems

7. AWARDS, HONORS, GRANTS

- [2019] I was awarded a grant of **£290** covering registration to **Privacy Preserving Machine Learning workshop** at **CCS conference** in London.
- [2019] I was awarded a **$700** grant covering travel expenses to **IoTDI 2019** conference in Montreal, Canada.
- [2018] Our team earned **first place** in Imperial College AIHack 2018 for Brooklyn Housing Challenge. Nov2018.
- [2018] I was accepted on to the **Alan Turing Institute Data Study Group**, covering all the travelling and accommodation expenses, April 2018.
- [2018] I was awarded a grant covering registration to top-tier systems conference **EuroSys 2018** in Porto, Portugal.
- [2018] I was accepted on to the **2nd CommNet2 PhD Spring School**, covering all the travelling and accommodation expenses, March 2018.
- [2017] I was awarded a **$30000** grant of **Microsoft Azure** storage and compute for one year in 2018.
- [2017] I was awarded a grant of **$500** covering travel and lodging to top-tier systems conference **EuroSys 2017** in Belgrade, Serbia.
- [2017] I was awarded a **Ph.D. studentship**, to work on privacy-preserving personal data analytics, from **Queen Mary University of London, Life Sciences Initiative** in 2017.
- [2014] I was ranked **1th** among more than **30** faculty members of engineering department at Persian Gulf University as **the best teacher of the year**, 2014.
- [2009] I was ranked **10th** among more than **10,000** participants taking part in the **M.Sc. entrance exam of IT Engineering** in Iran, 2009.
- [2008] I was ranked **2th** among more than **50** computer engineering students **during the bachelor's degree** in Shahid Chamran University of Ahvaz, 2008.

8. SERVICES and EXPERIENCES

- External Reviewer for: Nature Communications, World Wide Web Journal, The Web Conference, Symposium on Experimental Algorithms.
- Program Committee: AMV2018.
- Shadow PC: EuroSys2018.

9. LANGUAGES: **English** (fluent), **Persian** (native)**.**

10. REFERENCES: Upon Request