

Mohammad Malekzadeh

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Code: <http://github.com/mmalekzadeh>
Papers: <https://scholar.google.co.uk/citations?user=xZr9WQMMAAAJ&hl=en>

1. EDUCATION

PHD	2017 (JAN) – Present	Ph.D. Candidate 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
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

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

3. AREA OF INTERESTS and EXPERTIES

My main focus is on privacy and machine learning. I have been working on machine learning, systems and algorithms, for privacy-preserving personal data analytics, particularly for data generated by mobile and wearable devices. At the moment I am working on privacy-preserving model training and inference in federated learning. Also, in my research career, I have had the opportunity to work on: *Deep Neural Networks, Complex Networks Modeling, Game Theory and its Applications, and Software Development.*

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.

Under Review:

- 2020: **Mohammad Malekzadeh**, Richard G. Clegg, Andrea Cavallaro, and Hamed Haddadi. **DANA: Dimension-Adaptive Neural Architecture for Multivariate Sensor Data**, arXiv Preprint.
- 2020: Giuseppe Siracusano, Salvator Galea, Davide Sanvit, **Mohammad Malekzadeh**, Hamed Haddadi, Gianni Antichi, Roberto Bifulco. **Running Neural Network Inference on the NIC**, arXiv Preprint.

Dataset

- 2018: **MotionSense Dataset**: for Human Activity and Attribute Recognition from Smartphone's Motion Sensors
 - <https://github.com/mmalekzadeh/motion-sense>
 - <https://www.kaggle.com/malekzadeh/motionsense-dataset>

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

- Teacher Assistant of an undergraduate course (Sensing and IoT), 2018-2019 at Imperial College London.
- 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.
- 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

- **Machine Learning:** Python, Tensorflow, Keras, PyTorch, NumPy, SciPy, Scikit-Learn, Pandas;
- **Software Engineering Experiences:** I have had experiences on HTML, CSS, JavaScript, AngularJS, NodeJS, PHP Laravel Framework; MySQL and MongoDB. 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