

Faheem Zafari

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EDUCATION

IMPERIAL COLLEGE LONDON

PH.D. ELECTRICAL ENGINEERING
Expected Aug 2020 | London, UK

PURDUE UNIVERSITY, USA

M.S. COMPUTER AND
INFORMATION TECHNOLOGY
May 2016 | West Lafayette, IN, USA
GPA: 4.0 / 4.0

UET PESHAWAR

B.S. ELECTRICAL ENGINEERING
June 2013 | Peshawar, Pakistan
GPA: 3.49 / 4.0

SKILLS

OPTIMIZATION THEORY

Convex and Non-Convex Problems:
Centralized and Distributed Algorithms
Duality Theory

GAME THEORY

Non-Cooperative Games
Cooperative Games
Bargaining Theory

INDOOR LOCALIZATION

Techniques:
RSSI • ToF • TDoF
Technologies
WiFi • Bluetooth

MACHINE LEARNING

Supervised Learning:
Linear Regression • Logistic Regression
ANN • RNN • SVM
Unsupervised Learning:
K-means • PCA

PROGRAMMING

Over 5000 lines:
Java • Matlab
Over 1000 lines:
C++ • Objective C
Familiar:
Python • MySQL

LINKS

Github:// [faheemzafari](#)
LinkedIn:// [faheemzafari](#)
Google Scholar:// [faheemzafari](#)

EXPERIENCE

IMPERIAL COLLEGE LONDON | PH.D. RESEARCHER

Sep 2016 – Now | London, UK

- Developing optimization techniques and game theoretic algorithms for resource allocation in communication networks.

US ARMY RESEARCH LABORATORY | VISITING RESEARCHER

Aug 2017 | Adelphi, MD, USA

- Worked on optimization techniques for tactical environments.

PURDUE UNIVERSITY | GRADUATE RESEARCH AND TEACHING ASSISTANT

Aug 2014 – May 2016 | West Lafayette, IN, USA

- Designed algorithms for indoor localization and proximity detection using iBeacons.
- Developed docker based web applications for IEEE Cyber Security Project.
- Worked as a teaching assistant for graduate and undergraduate level courses.

NORTH CAROLINA STATE UNIVERSITY | VISITING RESEARCHER

June 2015 – July 2015 | Raleigh, NC, USA

- Implemented an end-to-end system for proximity based services using iBeacons.

CENTER FOR INTELLIGENT SYSTEMS AND NETWORKS RESEARCH | RESEARCHER

Mar 2013 – Sep 2013 | Peshawar, Pakistan

- Used machine learning for time series forecasting.
- Carried out research on Intelligent Transportation System and smart grids.

RESEARCH SUMMARY

Published Papers:

4 journal and 10 conference papers published so far in reputable venues.

- 5 Machine Learning Papers • 4 Indoor Localization Papers • 3 Optimization Theory papers • 1 Game Theory Paper • Over 260 citations • See google scholar for detailed list of publications

SELECTED PUBLICATIONS

- Zafari et al. (2018). "A Game-Theoretic Approach to Multi-Objective Resource Sharing and Allocation in Mobile Edge Clouds." Technologies for the wireless edge (Mobicom).
- Zafari et al. (2016) "Microlocation for internet of things equipped smart buildings." IEEE Internet of Things Journal. (Cited 66 times)
- Zafari et al. (2013) "A survey of intelligent car parking system." Journal of Applied Research and Technology. (Cited 54 times)
- Zafari et al. (2014) "Evolving recurrent neural network using Cartesian genetic programming to predict the trend in foreign currency exchange rates." Applied Artificial Intelligence.

AWARDS

- 2016 Ph.D Fellowship by EE Department and EPSRC (UK's NSF)
- 2015 Travel grant for IEEE Globecom Conference by Purdue University
- 2011 Global Undergraduate Exchange Fellowship
- 2008 5th/7000 students in Engineering Entrance Exam