

Amin Ghazanfari

PhD Candidate and Researcher

A Ph.D. candidate in Electrical Engineering at Linköping University with a solid background in signal processing in wireless communications, mathematical analysis and programming. My main research interests include resource allocation in 5G-and-beyond systems and applying machine learning and deep learning for wireless communications.



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WORK EXPERIENCE

Research Assistant University of Manitoba

05/2015 – 09/2016

Winnipeg, Canada

Achievements/Tasks

- Development of algorithms to enhance energy efficiency of cellular networks.

Advisor: Prof. Ekram Hossain

Research Assistant University of Oulu

04/2013 – 04/2015

Oulu, Finland

Centre for Wireless Communications

Advisor: Prof. Antti Tölli

EDUCATION

PhD Candidate in Electrical Engineering Linköping University

02/2017 – Present

MIMO systems, adv. detection and estimation, neural networks and deep learning, non-linear optimization

- Advisors: Prof. Emil Björnson and Prof. Erik G. Larsson
- Analysis, design and optimization of cellular architectures.
- Development of spatial resource allocation algorithms for new radio access networks utilizing Massive MIMO and D2D communications.
- Two IEEE transactions journal publications and two conference papers (ICASSP 2019, WSA 2018).
- (2017-Present) TA in Master Level courses: TSKS16 Signal Processing for Communication. TSMT14 Signal Theory. TSIN01 Information Networks.
- Supervised thesis: "Bluetooth LE Mesh Network in an Industrial Environment" by Mattias berglund. Linköping University and Toyota Material Handling Europe.

Licentiate of Engineering Linköping University

10/2019

Thesis title

- Power Control for Multi-Cell Massive MIMO

M.Sc. (Technology) in Wireless Communication Engineering University of Oulu

09/2011 – 01/2014

4/5, Graduated with Distinction

Thesis title

- Coordinated beamforming and power control for network controlled device-to-device (D2D) communication.

SKILLS

Deep Learning

Python

Machine Learning

Massive MIMO

Optimization Theory

Matlab

Detection and Estimation

Mathematical Analysis

Teaching

Signal Processing

3GPP, 5G

CVX optimization tools

C++

PROJECTS

H2020 Marie-Curie ITN "5Gwireless" (02/2017 – 12/2018)

- Research on innovative architectures, wireless technologies and tools for high capacity and sustainable 5G ultra-dense cellular networks. Training activities on standardization and patents, EC funding and project management.

EWIN-D & CRUCIAL (04/2013 – 04/2015)

- Research on Energy efficient digital signal processing and resource management for D2D communications.
- Project secretary tasks.

AWARDS

Marie-Curie Research Fellowship (02/2017 – 12/2018)

Ericsson Research Foundation grant (05/2019)

M.sc, thesis grant, CWC, University of Oulu (2013)

Trainee grant award, CWC, University of Oulu (2012)

LANGUAGES

Persian



English



Swedish



Finnish



INTERESTS

Cross-fit

Hiking

Travelling

Gardening