

Khaled Nakhleh

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EXPERIENCE

Nokia Bell Labs

AI Research Intern. Advisor: Dr. Matthew Andrews. (40 hours/week).

Jun. 2022 – Aug. 2022

Murray Hill, NJ

Graduate Teaching Assistant

ECEN Department at Texas A&M University. (20 hours/week).

Jan. 2019 – Dec. 2020

College Station, TX

- **Instructed lectures and lab sessions** for over 200 students.
- **Awarded** assistanship for four semesters.

Q.M. Controls

Applications Engineering Intern. (40 hours/week).

Jan. 2018 – May 2018

Doha, Qatar

- **Scheduled and maintained** valve replacement shipments from Germany to Qatar.
- **Configured** valve systems for natural gas and HVAC systems' optimal flow.
- **Processed** clients' quotations and offered technical consultation.

Samson Controls AG

Valve Sizing Intern. (40 hours/week).

Oct. 2017 – Nov. 2017

Frankfurt, Germany

- **Trained** on Samsons valve sizing software, and determined clients ideal valve parameters
- **Inspected** valve types, materials, actuator sizing techniques, and actuator models

PUBLICATIONS

Conference Publications

1. Daojing Guo, **Khaled Nakhleh**, I-Hong Hou, Sastry Kompella, and Clement Kam. "A Theory of Second-Order Wireless Network Optimization and Its Application on Aol". in: *IEEE INFOCOM 2022 - IEEE Conference on Computer Communications (INFOCOM 2022)*. London, United Kingdom (Great Britain), May 2022
2. **Khaled Nakhleh**, Santosh Ganji, Ping-Chun Hsieh, I-Hong Hou, and Srinivas Shakkottai. "NeurWIN: Neural Whittle Index Network For Restless Bandits Via Deep RL". in: *Proceedings of the 35th Neural Information Processing Systems (NeurIPS) 2021*. 2021. arXiv: 2110.02128

EDUCATION

Texas A&M University, College Station

PhD, MS in Electrical Engineering. GPA: 4.0 / 4.0

Aug. 2018 – May 2024 (expected)

College Station, TX

- **Coursework:** Machine Learning, Analysis of Algorithms, Game Theory, Stochastic Systems, Software Engineering, Asymptotic Statistics, Data Mining and Analysis, Internet Protocols and Modeling, Computer Communication and Networking.
- **MS Thesis:** NeurWIN: Neural Whittle Index Network for Restless Bandits via Deep RL.

Texas A&M University at Qatar

Bsc in Electrical Engineering.

Aug. 2013 – May 2017

Doha, Qatar

- **Minor:** Mathematics

NON-ACADEMIC PROJECTS

Beyond 5G Challenge by Air Force Research Laboratory (AFRL)

- Worked on dynamic scheduling algorithm to minimize the age of information of sensory data.
- Modified a Software-Defined Network (SDN) controller to implement the algorithm in Python.

Force Request System For the Computer Science Department

- Acted as SCRUM master (leader) in making a SaaS app for the computer science department at Texas A&M.
- Used Ruby on Rails as backend with A.W.S. and deployed using Heroku.

LEADERSHIP AND COMMUNITY SERVICE

MLAI Conference Reviewer

ICML 2022, NeurIPS 2022.

Professional Development Officer

Electrical and Computer Engineering Graduate Student Association (ECE-GSA)

Jan. 2020 – Feb. 2022
College Station, TX

Academy for Future Faculty (AFF)

Senior Fellow

Jan. 2020 – May 2021
College Station, TX

Graduate and Professional Student Government (GPSG)

ECEN Department Senator

Feb. 2020 – May 2021
College Station, TX

AWARDS & SKILLS

Awards

ECEN department PhD merit fellowship.

Glenn and Deborah Renwick engineering scholarship (declined).

Skills

Languages: Python [PyTorch, Keras, NumPy, Pandas, Matplotlib], C/C++[CMake], LabView, MATLAB, SQL[MySQL].

Tools: NS-3, Git, Docker, L^AT_EX.