

Modar M. Alfadly

PERSONAL INFORMATION (SAUDI CITIZEN)

PLACE AND DATE OF BIRTH: Madinah, Saudi Arabia | 03 February 1994
ADDRESS: 4700 KAUST Thuwal, 23955-6900, Saudi Arabia
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EDUCATION

Current PhD in COMPUTER SCIENCE (candidate)
King Abdullah University of Science and Technology (KAUST), Saudi Arabia

2017 Masters of Science in COMPUTER SCIENCE
King Abdullah University of Science and Technology (KAUST), Saudi Arabia
Thesis: **“Analytic Treatment of Deep Neural Networks Under Additive Gaussian Noise”** | Bernard GHANEM

2016 Bachelor of Science in SOFTWARE ENGINEERING | HONORS DISTINCTION
King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia

WORK EXPERIENCE

OCT 2019 | Research Intern at FACEBOOK REALITY LABS (FRL), WA, USA
JUN 2019 | “Active Learning using Uncertainty Predictions for Semantic Segmentation”

SPRING 2019 | Teaching Assistant at KAUST, Saudi Arabia
SPRING 2018 | *EE 354: Introduction to Computer Vision (PhD-level course)*

AUG 2018 | Deep Learning Consultant at MOZN SYSTEMS, Saudi Arabia
AUG 2017 | *Data Driven Solutions*

SUMMER 2015 | Intern at KAUST, Saudi Arabia
“Symmetric Iterative Skeletonization of 3D Brain Neurons with CUDA”

PUBLICATIONS

1. “Probabilistic Moments of PL-DNN with Gaussian Input” [journal extension] TPAMI *under submission* (2019)
2. “Expected Tight Bounds for Robust Deep Neural Network Training” CoRR [1905.12418](https://arxiv.org/abs/1905.12418) *under review* (2019)
3. “Analytical Moment Regularizer for Gaussian Robust Networks” CoRR [1904.11005](https://arxiv.org/abs/1904.11005) *under review* (2019)
4. “A Novel Framework for Robustness Analysis of Visual QA Models” AAAI Oral [*second author*] (2019)
5. “Analytic Expressions for Probabilistic Moments of PL-DNN with Gaussian Input” CVPR Oral (2018)
6. “Robustness Analysis of Visual QA Models by Basic Questions” CVPR Workshop [*second author*] (2018)
7. “VQABQ: Visual Question Answering by Basic Questions” CVPR Workshop [*second author*] (2017)

AWARDS AND QUALIFICATIONS

- Acclaimed Orientation Leader (2018), KAUST
- Panelist in the Thesis Defense Preparation Series (2018), KAUST
- Awarded KAUST Fellowship with full tuition support for my MS and PhD degrees (2016), KAUST
- 1st to solve all questions in National Programming Contest NC3 (2016), KAU
- 1st position Winner in KFUPM Hackathon (2015), Techbench
- Ethical Hacking (2013) and Reverse Engineering (2016), DES KFUPM

REFERENCES

For more information refer to my [website](http://Modar.me) and references are available upon request