Hassan Hamad

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PROFILE

- » Machine Learning PhD candidate at USC
- » Interested in problems related to training deep learning algorithms on a computational and data budget
- » My methods are applied to various tasks such as computer vision and NLP
- » Lately focused on NLP problems such as Named Entity Recognition and Relation Extraction

EDUCATION

University of Southern California (USC) ♀ Los Angeles, CA

» Focus on efficient training of Deep learning models, especially on NLP Tasks

» Cumulative GPA: 4.0/4.0

» Focus on Information Theory and Wireless Communications

» Cumulative GPA: 3.9/4.0

± 2012/09–2016/06 B.E. in Computer and Communications Engineering

» Focus on Algorithms, Digital Coding and Wireless Communications

» Cumulative GPA: 3.9/4.0

Work

2019/02–2019/06 Working Student - Machine Learning

Fraunhofer • Munich, Germany

» Developed and trained RNN architectures for predicting latency of a V2V communication link from channel measurements.

🗯 2017/05–2018/05 Working Student - LTE physical layer system engineer

Intel

♥ Munich, Germany

» Worked on a physical layer concept to implement the V2X feature from 3GPP.

2015/05-2015/08 Intern - 3GPP Mobile Standards

Ericsson

♥ Beirut, Lebanon

» Performed a detailed study of the different 3GPP mobile standards and the different software tools used by Ericsson for network monitoring.

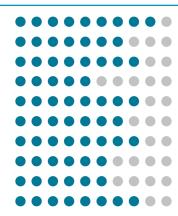
TEACHING EXPERIENCE

2018/10–2019/02 Lab Assistant for Communications Lab

» Introduction to communication systems based on experiments and computer simulations.

IT SKILLS

Python
C++
PyTorch
Tensorflow
MATLAB
Linux
Git
AWS
Docker
Latex



ACADEMIC ACHIEVEMENTS

2019/08–2020/08 Annenberg Fellowship recipient

2020/08−present SLK America Fellowship recipient

V-Labs (in partnership with SLK Software)

♦ Los Angeles, CA

PUBLICATIONS IN PREPARATION

- **» H. Hamad**, A. Kumar, and K.M. Chugg. FIRE: A FInancial Relation Extraction Dataset *To be submitted in Spring* 2023.
- **» H. Hamad**, A. Kumar, and K.M. Chugg. Training Convolutional Neural Networks using Logarithmic Number System *To be submitted in Spring* 2023.
- **» H. Hamad**, A. Kumar, and K.M. Chugg. A combined SSL-ACL appraach to train Relation Extraction Models on a Low Data Budget *To be submitted in Spring* 2023.

PAST PUBLICATIONS

- » W. Chang, H. Hamad and K.M. Chugg. Approximation Capabilities of Neural Networks using Morphological Perceptrons and Generalizations In 2022 Asilomar Conference on Signals, Systems, and Computers.
- » M. Kobayashi, H. Hamad, G. Kramer and G. Caire. Joint State Sensing and Communication over Memoryless Multiple Access Channels In 2019 IEEE International Symposium on Information Theory (ISIT).
- **» H. Hamad** and G. M. Kraidy. Performance Analysis of Convolutional Codes over the Bernoulli-Gaussian Impulsive Noise Channel In 2017 15th Canadian Workshop on Information Theory (CWIT).
- » W. Hamad, M. Bou Sanayeh, H. Hamad, M. Hamad, S. Georges, and W. Hofmann. Small-signal analysis of ultra-high-speed 30 GHz VCSELs using an advanced multimode approach In 2017 Proceedings of the Integrated Optics: Physics and Simulations III conference.

LANGUAGES

Arabic (native) English (fluent) German (basic)