

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

- 📅 2019/08–present PhD in Electrical and Computer Engineering
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
- 📅 2016/09–2019/05 M.S. in Communications Engineering
Technical University of Munich (TUM) 📍 Munich, Germany
- » Focus on Information Theory and Wireless Communications
 - » Cumulative GPA: 3.9/4.0
- 📅 2012/09–2016/06 B.E. in Computer and Communications Engineering
Notre Dame University - Louaize 📍 Zouk Mosbeh, Lebanon
- » 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
Technical University of Munich (TUM) 📍 Munich, Germany
- » 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
University of Southern California (USC) 📍 Los Angeles, CA
- 📅 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 approach 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 multi-mode approach** In 2017 Proceedings of the Integrated Optics: Physics and Simulations III conference.

LANGUAGES

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