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PROFILE

- » Machine Learning PhD candidate at USC
- » Interested in NLP and especially information extraction!
- » My PhD Thesis is centered around techniques for efficient training of neural networks.

EDUCATION

2019/08-present PhD in Electrical and Computer Engineering

» 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

» Focus on Information Theory and Wireless Communications

» Cumulative GPA: 3.9/4.0

Notre Dame University - Louaize
♥ Zouk Mosbeh, Lebanon

» Focus on Algorithms, Digital Coding and Wireless Communications

» Cumulative GPA: 3.9/4.0

WORK EXPERIENCE

2023/05–2023/08 Quantitative Machine Learning Intern

Bloomberg

♥ New York, USA

» Leveraged state-of-the-art LLMs for information extraction tasks, encompassing data cleaning, preparation and augmentation.

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.

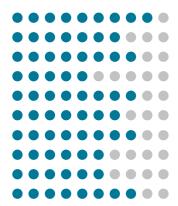
TEACHING EXPERIENCE

Technical University of Munich (TUM) ♥ Munich, Germany

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

SOFTWARE 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

- » FIRE: A Dataset for <u>FI</u>nancial <u>Relation Extraction</u>
 - A. Thakur, S. Pulikodan, N. Kolleri and K.M. Chugg.
 - <u>in</u> Under Review at the 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL).
- » Training Convolutional Neural Networks using the Logarithmic Number System (LNS)
 - **H. Hamad** and K.M. Chugg.
 - **m** To be submitted to the 2024 Forty-first International Conference on Machine Learning (ICML).
- » A combined SSL-ACL approach to train Relation Extraction Models on a Low Data Budget
 - **H. Hamad**, A. Thakur, S. Pulikodan, N. Kolleri and K.M. Chugg.
 - **m** Under Preparation.

PAST PUBLICATIONS

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

LANGUAGES

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