

SHADEN SHAAR

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Education	Cornell University , Ithaca, United States <i>PhD</i> , Computer Science, <i>GPA 3.93/4.00</i>	2021–Now
	Carnegie Mellon University , Doha, Qatar <i>Bachelor of Science</i> , Computer Science, <i>GPA 3.53/4.00</i> <i>Minor: Mathematics</i> University Honors	2015–2019
Research Experience	NLP PhD Student at Cornell University <i>Natural Language Processing</i> Worked with: Dr. Claire Cardie Research Topics: Long-Doc Summarizing <ul style="list-style-type: none">• Worked on narrative long-doc summarization (e.g., novels, movies)• Developed new movie long doc summarization dataset• Working on video summarization	Aug 2021–Now
	Research Assistant at Qatar Computing Research Inst., HBKU <i>Natural Language Processing</i> Worked with: Dr. Preslav Nakov, Prof. Giovanni Da San Martino Research Topics: Automated Fact-Checking; Propaganda Detection <ul style="list-style-type: none">• Worked on automated fact-checking by using previously fact-checked claims• Developed Fact-checking schema to fight misinformation on COVID-19• Co-organized multiple tasks in CLEF2020–CheckThat! and CLEF2021–CheckThat! Lab focused on fact-checking• Built demos for propaganda detection in media• Co-organized propaganda detection in text/images shared task in SemEval-2021	Jul 2019–May 2021
	Independent Study at Carnegie Mellon Uni. <i>Natural Language Processing</i> Advisors: Prof. Bhiksha Raj & Prof. Khaled Harras Thesis Topic: Text-to-Speech Synthesis for Arabic Dialects <ul style="list-style-type: none">• Explored text-to-speech for multi-speaker setup and adapted it to Arabic dialects• Built a text-to-speech model for multiple dialects of the Arabic Language	Aug 2018–Jan 2019
	Research Intern at The Robotics Inst. at Carnegie Mellon Uni. <i>Computer Vision</i> Advisor: Dr. Christoph Mertz Research Topic: Lane Detection for Autonomous Vehicles <ul style="list-style-type: none">• Worked on road image segmentation for lane detection and identification• Explored deep learning and computer vision tools to identify & segment road markings	May 2018–Aug 2018
	Research Associate at Carnegie Mellon Uni. <i>Machine Learning</i> Advisor: Prof. Bhiksha Raj Research Topic: Active Testing <ul style="list-style-type: none">• Developed two algorithms that compete with state-of-the-art techniques to estimate the accuracy of a classifier under limited resources• Proved mathematically & showed empirically the efficiency of the proposed algorithms	May 2017–June 2018

Publications

1. Dimitrov, D., Ali, Bishr., **Shaar, S.**, Alam, F., Silvestri, F., Firooz, H., Nakov, P., Martino, G.D. (2021). Detecting Propaganda Techniques in Memes. *Association for Computational Linguistics (ACL-IJCNLP'2021)*
2. Nakov, P., Martino, G.D., Elsayed T., Barrón-Cedeno, A., Míguez, R., **Shaar, S.**, Alam, F., Haouari, F., Hasanain, M., Babulkov, N., Nikolov, A., Shahi, G., Struß, J., Mandl, T.. (2021). The CLEF-2021 CheckThat! Lab on Detecting Check-Worthy Claims, Previously Fact-Checked Claims, and Fake News. *European Conference On Information Retrieval. (ECIR'2021)*
3. Alam, F., **Shaar, S.**, Dalvi, F., Sajjad, H., Nikolov, A., Mubarak, H., Martino, G.D., Abdelali, A., Durrani, N., Darwish, K., Al-Homaid, A., Zaghoulani, W., Caselli, T., Danoë, G., Stolk, F., Bruntink, F., Nakov, P. (2021). Fighting the COVID-19 Infodemic: Modeling the Perspective of Journalists, Fact-Checkers, Social Media Platforms, Policy Makers, and the Society. *Findings of Empirical Methods in Natural Language Processing. (Findings of EMNLP'2021)*
4. Alam, F., Dalvi, F., **Shaar, S.**, Durrani, N., Mubarak, H., Nikolov, A., Martino, G.D., Abdelali, A., Sajjad, H., Darwish, K., Nakov, P. (2021). Fighting the COVID-19 Infodemic in Social Media: A Holistic Perspective and a Call to Arms. *International Conference On Web And Social Media. (ICWSM'2021)*
5. Nakov, P., Corney, D., Hasanain, M., Alam, F., Elsayed, T., Barrón-Cedeno, A., Papotti, P., **Shaar, S.**, Martino, G.D. (2021). Automated Fact-Checking for Assisting Human Fact-Checkers. *International Joint Conferences on Artificial Intelligence. (IJCAI'2021)*
6. **Shaar, S.**, Martino, G.D., Babulkov, N., and Nakov, P. (2020). That is a Known Lie: Detecting Previously Fact-Checked Claims. *Association for Computational Linguistics. (ACL'2020)*
7. Martino, G.D., **Shaar, S.**, Zhang, Y., Yu, S., Barrón-Cedeño, A., and Nakov, P. (2020). Prta: A System to Support the Analysis of Propaganda Techniques in the News. *Association for Computational Linguistics. (ACL'2020)*, **Best Demo Award (Honorable Mention)**
8. **Shaar, S.**, Razak, S., Dalvi, F., and Moosavi, S. (2018). Group Identification in Crowded Environments Using Proximity Sensing. *IEEE Conference on Local Computer Networks. (LCN'2018)*
9. Hassan, S., **Shaar, S.**, Raj, B., and Razak, S. (2018). Interactive Evaluation of Classifiers Under Limited Resources, *IEEE International Conference on Machine Learning and Applications. (ICMLA'2018)*

Awards & Honors

- Awarded **University Fellowship** in 2021 for exceptional preparation and promise at Cornell University
- Paper awarded **Honorable Mention** at **ACL 2020**
- Graduated with **University Honors** in 2019 for outstanding grade point average at Carnegie Mellon Uni.
- Awarded the **Dean's List** for F15, S16, F16 and F17 at Carnegie Mellon Uni.
- Awarded a **50% Academic Merit Scholarship** in 2015 that is given to few promising students starting at Carnegie Mellon Uni.

Teaching Experience

Teaching Assistant at Carnegie Mellon Uni.

- 11-785 Introduction to Deep Learning, Prof. Bhiksha Raj (F18 & S19)
- 15-251 Great Theoretical Ideas, Prof. Christos Kapoutsis (S18 & S19)
- 15-213 Introduction to Computer Systems, Prof. Khaled Harras (F17)
- 15-112 Fundamentals of Programming, Prof. Saquib Razak (F16 & F17)
- 21-127 Concepts of Mathematics, Prof. Zelealem Yilma (S16)

Technical Skills

- Programming Languages: Python, C, SML, Assembly
- Deep Learning Toolkits: PyTorch, Tensorflow, Keras
- Machine Learning Toolkits: sklearn