

Sabit Hassan | Curriculum Vitae

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EDUCATION

PhD in Computer Science *University of Pittsburgh* Expected Spring 2025
Dissertation: Leveraging Active Learning for Safe, Inclusive, and Democratic Conversational AI
Committee: Malihe Alikhani (Co-Chair), Jacob Biehl (Co-Chair), Diane Litman, Xiaowei Jia

BSc in Computer Science *Carnegie Mellon University* 2014–2018
GPA: 3.79/4.0, Minors: Mathematics and History
Thesis: Interactive Evaluation and Training of Classifiers under Limited Resources,
Advisors: Bhiksha Raj and Saquib Razak

HONORS AND AWARDS

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|---|---|---------------------|
| Computer Science Dept. Fellowship | <i>University of Pittsburgh</i> | Aug 2023 – Apr 2024 |
| Alexa Prize Taskbot Challenge 3rd Place Award | <i>Amazon</i> | Sep 2023 |
| Alexa Prize Taskbot Challenge Grant | <i>Amazon</i> | Jan 2023 |
| Kuzneski Innovation Cup Award | <i>Big Idea Center</i> | Nov 2022 |
| Outstanding Academic Achievement | <i>Carnegie Mellon University Qatar</i> | May 2018 |
| University Honors | <i>Carnegie Mellon University</i> | May 2018 |
| SCS College Honors | <i>Carnegie Mellon University</i> | May 2018 |
| History Honors | <i>Phi Alpha Theta</i> | May 2018 |
| Carnegie Mellon Dean's List | <i>Carnegie Mellon University</i> | Apr 2015–Apr 2018 |

TEACHING

Guest Lectures

- Active Learning for Democratizing Safety and Fairness in LLMs **Northeastern University**, Mar 22, 2024
- Causal inference in LLMs, **Northeastern University**, Mar 19, 2024
- Machine Translation, **University of Pittsburgh**, Nov 15, 2023

Graduate Teaching Assistant *University of Pittsburgh* Aug 2021–Aug 2024

- CS 1501: Algorithms and Data Structures 2, CS 2731: Introduction to Natural Language Processing, CS 1520: Introduction to Web Applications

Teaching Assistant *Carnegie Mellon University* Jan 2016–May 2018

- CMUQ Freshman Edge Summer Program, 15–251: Great Theoretical Ideas in Computer Science, 15–210: Parallel and Sequential Data Structures and Algorithms, 15–112: Fundamentals of Programming and Computer Science, 21–127: Concepts of Mathematics

Summer Internship Mentor *Qatar Computing Research Institute, Doha, Qatar* May 2020–Jul 2020

- Mentored interns on the use of machine learning in NLP tasks

SERVICES

- **Co-organizer**, MADAR Shared Task on Fine-Grained Arabic Dialect Identification, 2019
- **Program Committee/Reviewer**: ARR, Journal of NLP, ACL, EACL, EMNLP, IJCNLP-AACL, IEEE MM, Heilyon, ICARD
- **Member**, Student Academic Committee, Academic Review Board, Carnegie Mellon University

PUBLICATIONS [Google Scholar]

Published/Accepted:

* denotes equal contribution

- [1] Sicilia, A., Asano, Y., Atwell, K., Cheng, Q., Gupta, D., **Hassan, S.** Inan, M., Nwogu, J., Sharma, P., Alikhani, M. *ISABEL: An Inclusive and Collaborative Task-Oriented Dialogue System*. **Amazon Science, 2023**. [3rd place award in Alexa Prize Taskbot Challenge]
- [2] **Hassan, S.** & Alikhani, M. DisCGen: A Framework for Discourse-Aware Counterspeech Generation. **IJCNLP-AACL, 2023**
- [3] **Hassan, S.** & Alikhani, M. D-CALM: A Dynamic Clustering-based Active Learning Approach for Mitigating Bias. **ACL FINDINGS, 2023**
- [4] Wang, Y., Donovan, H.A.S., **Hassan, S.**, Alikhani, M. MedNgage: A Dataset for Understanding Engagement in Patient-Nurse Conversations. **ACL FINDINGS, 2023**
- [5] Ye, M., Sikka, K., Atwell, K., **Hassan, S.**, Divakaran, A., Alikhani, M. Multilingual Content Moderation and Challenges: A Case Study of Reddit. **EACL, 2023**
- [6] Mubarak, H., **Hassan, S.**, & Chowdhury, S. Emojis as Anchors to Detect Arabic Offensive Language and Hate Speech. **NLE, 2023**.
- [7] Atwell, K.*, **Hassan, S.***, Alikhani, M. APPDIA: A Discourse-aware Transformer-based Style Transfer Model for Offensive Social Media Conversations. **COLING, 2022**
- [8] Inan, M.*, Yang, Z.*, **Hassan, S.***, Quandt, L., & Alikhani, M. Modeling Intensification for Signed Language Generation: A Computational Approach. **ACL FINDINGS, 2022**
- [9] **Hassan, S.**, Shaar, S., & Darwish, K. Cross-lingual Emotion Detection. **LREC, 2022**
- [10] Mubarak, H., **Hassan, S.**, Chowdhury, S. A., & Alam, F. ArCovidVac: Analyzing Arabic Tweets About COVID-19 Vaccination. **LREC, 2022**.
- [11] **Hassan, S.**, Mubarak, H., Abdelali, A., & Darwish, K. ASAD: Arabic Social Media Analytics and unDerstanding. **EACL 2021**
- [12] Mubarak, H., **Hassan, S.**, & Abdealali, A. Adult Content Detection on Arabic Twitter: Analysis and Experiments. **WANLP 2021**
- [13] Abdelali, A., Mubarak, H., Samih, Y., **Hassan, S.**, & Darwish, K. QADI: Arabic Dialect Identification in the Wild. **WANLP 2021**
- [14] Mubarak, H., & **Hassan, S.** (2021, April). ArCorona: Analyzing Arabic Tweets in the Early Days of Coronavirus (COVID-19) Pandemic. **LOUHI, 2021**
- [15] Mubarak, H., Abdelali, A., **Hassan, S.**, & Darwish, K. Spam Detection on Arabic Twitter. **SocInfo, 2020**
- [16] **Hassan, S.**, Samih, Y., Mubarak, H., & Abdelali, A. ALT at SemEval-2020 task 12: Arabic and English offensive language identification in social media. **SemEval, 2020**
- [17] **Hassan, S.**, Samih, Y., Mubarak, H., Abdelali, A., Rashed, A., & Chowdhury, S. A. ALT submission for OSACT shared task on offensive language detection. **OSACT, 2020** [Ranked 1st in subtask A]
- [18] Mubarak, H., **Hassan, S.**, & Abdelali, A. Constructing a bilingual corpus of parallel tweets. **BUCC, 2020**
- [19] Bouamor, H., **Hassan, S.**, & Habash, N. The MADAR Shared task on Arabic Fine-Grained Dialect Identification. **WANLP, 2019**. [co-organizer]
- [20] Anabtawi, M., **Hassan, S.**, Kapoutsis, C., & Zakzok, M. An Oracle Hierarchy for Small One-way Finite Automata. **LATA, 2019**
- [21] **Hassan, S.**, Shaar, S., Raj, B., & Razak, S. (2018, December). Interactive Evaluation of Classifiers Under Limited Resources. **IEEE ICMLA, 2018**

Pre-prints:

- [22] **Hassan, S.**, Chung, H., Tan, Z., & Alikhani, M. *Coherence-driven Multimodal Safety Dialogue for Embodied Agents* **arXiv preprint arxiv:2410.14141 (2024)**
- [23] **Hassan, S.**, Sicilia, A., & Alikhani, M. *An Active Learning Framework for Inclusive Generation by Large Language Models*. **arXiv preprint arxiv:2410.13641 (2024)**
- [22] **Hassan, S.**, Sicilia, A., & Alikhani, M. *Active Learning for Robust and Representative LLM Generation in Safety-Critical Scenarios*. **arXiv preprint arxiv:2410.11114 (2024)**
- [24] Abdelali, A., **Hassan, S.**, Mubarak, H., Darwish, K., & Samih, Y. *Pre-Training BERT on Arabic Tweets: Practical Considerations*. **arXiv preprint arxiv:2102.10684 (2021)**

Abstracts:

- [23] **Hassan, S.***, Atwell, KJ.*, Alikhani, M. Studying the Effect of Moderator Biases on the Diversity of Online Discussions: A Computational Cross-linguistic Study. ***CogSci, 2022***
- [24] Inan, M.*, Zhong, Y.*, **Hassan, S.***, Quandt, L., Alikhani, M. Learning cognitive and linguistic prosodic categories for automatic cross-lingual sign language understanding. ***CogSci, 2022***