

# 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*

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## HONORS AND AWARDS

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

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## 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

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## SERVICES

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

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## PUBLICATIONS [\[Google Scholar\]](#)

### Published/Accepted:

\* denotes equal contribution

- [1] Asano, Y., Hassan, S., Sharma, P., Sicilia, A., Atwell, K., Litman, D., & Alikhani, M. *Contextual ASR Error Handling with LLMs Augmentation for Goal-Oriented Conversational AI*. **COLING, 2025**
- [2] **Hassan, S.**, Sicilia, A., & Alikhani, M. *Active Learning for Robust and Representative LLM Generation in Safety-Critical Scenarios*. **Customizable NLP @ EMNLP 2024 [Outstanding Paper Award]**
- [3] 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]**
- [4] **Hassan, S.** & Alikhani, M. *DisCGen: A Framework for Discourse-Aware Counterspeech Generation*. **IJCNLP-AACL, 2023**
- [5] **Hassan, S.** & Alikhani, M. *D-CALM: A Dynamic Clustering-based Active Learning Approach for Mitigating Bias*. **ACL FINDINGS, 2023**
- [6] Wang, Y., Donovan, H.A.S., **Hassan, S.**, Alikhani, M. *MedNgage: A Dataset for Understanding Engagement in Patient-Nurse Conversations*. **ACL FINDINGS, 2023**
- [7] Ye, M., Sikka, K., Atwell, K., **Hassan, S.**, Divakaran, A., Alikhani, M. *Multilingual Content Moderation and Challenges: A Case Study of Reddit*. **EACL, 2023**
- [8] Mubarak, H., **Hassan, S.**, & Chowdhury, S. *Emojis as Anchors to Detect Arabic Offensive Language and Hate Speech*. **NLE, 2023.**
- [9] Atwell, K.\*, **Hassan, S.\***, Alikhani, M. *APPDIA: A Discourse-aware Transformer-based Style Transfer Model for Offensive Social Media Conversations*. **COLING, 2022**
- [10] Inan, M.\*, Yang, Z.\*, **Hassan, S.\***, Quandt, L., & Alikhani, M. *Modeling Intensification for Signed Language Generation: A Computational Approach*. **ACL FINDINGS, 2022**
- [11] **Hassan, S.**, Shaar, S., & Darwish, K. *Cross-lingual Emotion Detection*. **LREC, 2022**
- [12] Mubarak, H., **Hassan, S.**, Chowdhury, S. A., & Alam, F. *Analyzing Arabic Tweets About COVID-19 Vaccination*. **LREC, 2022.**
- [13] **Hassan, S.**, Mubarak, H., Abdelali, A., & Darwish, K. *ASAD: Arabic Social Media Analytics and unDerstanding*. **EACL 2021**
- [14] Mubarak, H., **Hassan, S.**, & Abdealali, A. *Adult Content Detection on Arabic Twitter: Analysis and Experiments*. **WANLP 2021**
- [15] Abdelali, A., Mubarak, H., Samih, Y., **Hassan, S.**, & Darwish, K. *QADI: Arabic Dialect Identification in the Wild*. **WANLP 2021**
- [16] Mubarak, H., & **Hassan, S.** (2021, April). *Analyzing Arabic Tweets in the Early Days of Coronavirus (COVID-19) Pandemic*. **LOUHI, 2021**
- [17] Mubarak, H., Abdelali, A., **Hassan, S.**, & Darwish, K. *Spam Detection on Arabic Twitter*. **SocInfo, 2020**
- [18] **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**
- [19] **Hassan, S.**, Samih, Y., Mubarak, H., Abdelali, A., Rashed, A., & Chowdhury, S. A. *ALT at OSACT Shared Task on Offensive Language Detection*. **OSACT, 2020 [Ranked 1st in subtask A]**
- [20] Mubarak, H., **Hassan, S.**, & Abdelali, A. *Constructing a bilingual corpus of parallel tweets*. **BUCC, 2020**
- [21] Bouamor, H., **Hassan, S.**, & Habash, N. *The MADAR Shared task on Arabic Fine-Grained Dialect Identification*. **WANLP, 2019. [co-organizer]**
- [22] Anabtawi, M., **Hassan, S.**, Kapoutsis, C., & Zakzok, M. *An Oracle Hierarchy for Small One-way Finite Automata*. **LATA, 2019**
- [23] **Hassan, S.**, Shaar, S., Raj, B., & Razak, S. *Interactive Evaluation of Classifiers Under Limited Resources*. **IEEE ICMLA, 2018**

### Pre-prints:

- [24] **Hassan, S.**, Chung, H, Tan, Z., & Alikhani, M. *Coherence-driven Multimodal Safety Dialogue for Embodied Agents* **arXiv preprint arxiv:2410.14141 (2024)**
- [25] **Hassan, S.**, Sicilia, A, & Alikhani, M. *An Active Learning Framework for Inclusive Generation by Large Language Models*. **arXiv preprint arxiv:2410.13641 (2024)**
- [26] 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:

- [27] **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**
- [28] 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**