

# Sabit Hassan | Curriculum Vitae

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## Founder & Chief Executive Officer @ [Moonworks AI](#)

### EDUCATION

<b>BSc in Computer Science</b>	<i>Carnegie Mellon University</i>	2014-2018
<i>Minors:</i> Mathematics and History		
<i>Thesis:</i> Interactive Evaluation and Training of Classifiers under Limited Resources,		
<i>Advisors:</i> Bhiksha Raj and Saquib Razak		
<b>PhD in Computer Science</b>	<i>University of Pittsburgh</i>	Jan 2025
<i>Dissertation:</i> Active Learning Frameworks for Safe, Inclusive, and Democratic Conversational AI		
<i>Committee:</i> Malihe Alikhani (Co-Chair), Jacob Biehl (Co-Chair), Diane Litman, Xiaowei Jia, and Silvio Amir		

### HONORS AND AWARDS

<b>Outstanding Paper Award</b>	<i>Customizable NLP@EMNLP</i>	Nov 2024
<b>Alexa Prize Taskbot Challenge Award</b>	<i>Amazon</i>	Sep 2023
<b>Alexa Prize Taskbot Challenge Grant</b>	<i>Amazon</i>	Jan 2023
<b>Kuzneski Innovation Cup Award</b>	<i>The Big Idea Center</i>	Nov 2022
<b>Outstanding Academic Achievement</b>	<i>Carnegie Mellon University</i>	May 2018
<b>University Honors</b>	<i>Carnegie Mellon University</i>	May 2018
<b>SCS College Honors</b>	<i>Carnegie Mellon University</i>	May 2018
<b>History Honors</b>	<i>Phi Alpha Theta</i>	May 2018
<b>Carnegie Mellon Dean's List</b>	<i>Carnegie Mellon University</i>	Apr 2015-Apr 2018
<b>Best Design Award</b>	<i>Carnegie Apps Hackathon</i>	Feb 2018
<b>Best Technical Challenge Award</b>	<i>Carnegie Apps Hackathon</i>	Feb 2017

### RESEARCH

<b>Doctoral Research</b>	<i>University of Pittsburgh</i>	Aug 2021-Jan 2025
● Generative active learning, generative AI safety, dialogue systems, embodied agents		
● Sign language generation, content moderation, contextual ASR, NLP in healthcare		
<b>Researcher</b>	<i>Qatar Computing Research Institute</i>	Oct 2019-Jun 2021
● Pre-trained language model ( <a href="#">QARIb</a> ), dialect, offensive language, cross-lingual emotion detection		
● Social Media Analytics Suite ( <a href="#">ASAD</a> ), NLP processing tool ( <a href="#">Farasa</a> )		
<b>Research Associate</b>	<i>Carnegie Mellon University Qatar</i>	May 2018-Sep 2021
● Co-organized MADAR shared task on Arabic dialect identification		
● Characterized oracle hierarchy for small one-way finite automata		

### TEACHING

<b>Teaching Fellow</b>	<i>University of Pittsburgh</i>	Jan 2025-May 2025
● Course instructor for CS 0012: Introduction to Computing		
<b>Guest Lectures</b>		
● Active Learning for Democratizing Safety and Fairness in LLMs <b>Northeastern University</b> , Mar 22, 2024		
● Causal inference in LLMs, <b>Northeastern University</b> , Mar 19, 2024		
● Machine Translation, <b>University of Pittsburgh</b> , Nov 15, 2023		

<b>Graduate Teaching Assistant</b>	<i>University of Pittsburgh</i>	Aug 2021-Aug 2024
● Intro to Natural Language Processing, Algorithms and Data Structures, Intro to Web Applications		
<b>Teaching Assistant</b>	<i>Carnegie Mellon University</i>	Jan 2016-May 2018
● Freshman Edge Summer Program, Great Theoretical Ideas in CS, Parallel and Sequential Data Structures and Algorithms, Fundamentals of Programming and CS, Concepts of Mathematics		
<b>Summer Internship Mentor</b>	<i>Qatar Computing Research Institute</i>	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, ACL, EACL, EMNLP, IJCNLP-AACL, Journal of NLP, IEEE MM, Heilyon, ICARD
- **Member**, Student Academic Committee, Academic Review Board, Carnegie Mellon University Qatar

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

\* denotes equal contribution

- [1] Alikhani, M. & **Hassan, S.**, *Hype and harm: Why we must ask harder questions about AI and its alignment with human values*. BROOKINGS, 2025
- [2] **Hassan, S.**, Chung, H., Tan, Z., & Alikhani, M. *Coherence-driven Multimodal Safety Dialogue for Embodied Agents*. AAMAS, 2025
- [3] **Hassan, S.**, Sicilia, A., & Alikhani, M. *An Active Learning Framework for Inclusive Generation by Large Language Models*. COLING, 2025
- [4] 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
- [5] **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]**
- [6] 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. **[Alexa Prize Taskbot Challenge Award]**
- [7] **Hassan, S.** & Alikhani, M. *DisCGen: A Framework for Discourse-Aware Counterspeech Generation*. IJCNLP- AACL, 2023
- [8] **Hassan, S.** & Alikhani, M. *D-CALM: A Dynamic Clustering-based Active Learning Approach for Mitigating Bias*. ACL FINDINGS, 2023
- [9] Wang, Y., Donovan, H.A.S., **Hassan, S.**, Alikhani, M. *MedNgage: A Dataset for Understanding Engagement in Patient-Nurse Conversations*. ACL FINDINGS, 2023
- [10] Ye, M., Sikka, K., Atwell, K., **Hassan, S.**, Divakaran, A., Alikhani, M. *Multilingual Content Moderation and Challenges: A Case Study of Reddit*. EACL, 2023
- [11] Mubarak, H., **Hassan, S.**, & Chowdhury, S. *Emojis as Anchors to Detect Arabic Offensive Language and Hate Speech*. NLE, 2023.
- [12] Atwell, K.\*, **Hassan, S.\***, Alikhani, M. *APPDIA: A Discourse-aware Transformer-based Style Transfer Model for Offensive Social Media Conversations*. COLING, 2022
- [13] Inan, M.\*., Yang, Z.\*., **Hassan, S.\***, Quandt, L., & Alikhani, M. *Modeling Intensification for Signed Language Generation: A Computational Approach*. ACL FINDINGS, 2022
- [14] **Hassan, S.**, Shaar, S., & Darwish, K. *Cross-lingual Emotion Detection*. LREC, 2022
- [15] Mubarak, H., **Hassan, S.**, Chowdhury, S. A., & Alam, F. *Analyzing Arabic Tweets About COVID-19 Vaccination*. LREC, 2022.
- [16] Hassan, S., Mubarak, H., Abdelali, A., & Darwish, K. *ASAD: Arabic Social Media Analytics and unDerstanding*. EACL 2021

- [17] Mubarak, H., **Hassan, S.**, & Abdealali, A. *Adult Content Detection on Arabic Twitter: Analysis and Experiments*. **WANLP 2021**
- [18] Abdelali, A., Mubarak, H., Samih, Y., **Hassan, S.**, & Darwish, K. *QADI: Arabic Dialect Identification in the Wild*. **WANLP 2021**
- [19] Mubarak, H., & **Hassan, S.** *Analyzing Arabic Tweets in the Early Days of Coronavirus (COVID-19) Pandemic*. **LOUHI, 2021**
- [20] Mubarak, H., Abdelali, A., **Hassan, S.**, & Darwish, K. *Spam Detection on Arabic Twitter*. **SocInfo, 2020**
- [21] **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**
- [22] **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]**
- [23] Mubarak, H., **Hassan, S.**, & Abdelali, A. *Constructing a bilingual corpus of parallel tweets*. **BUCC, 2020**
- [24] Bouamor, H., **Hassan, S.**, & Habash, N. *The MADAR Shared task on Arabic Fine-Grained Dialect Identification*. **WANLP, 2019. [co-organizer]**
- [25] Anabtawi, M., **Hassan, S.**, Kapoutsis, C., & Zakzok, M. *An Oracle Hierarchy for Small One-way Finite Automata*. **LATA, 2019**
- [26] **Hassan, S.**, Shaar, S., Raj, B., & Razak, S. *Interactive Evaluation of Classifiers Under Limited Resources*. **IEEE ICMLA, 2018**

#### **Pre-prints:**

- [27] 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:**

- [28] **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**
- [29] 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**