

# Hawau Olamide Toyin

📍 Abu Dhabi, UAE    ✉ hawau.toyin@mbzuai.ac.ae    ☎ 0568219615    in toyinhawau    🌐 theehawau

## Research Interest

Speech Recognition; Speech Generation; Efficient, Multilingual and Multimodal NLP; Stutter Severity Assessment

*Languages:* Yoruba, English, French (A2), Arabic (A1)

## Publications

- ArVoice: A Multi-Speaker Dataset for Arabic Speech Synthesis** [Under review](#)   
Hawau Olamide Toyin, Rufael Fekadu Marew, Humaid Alblooshi, Samar Magdy, Hanan Aldarmaki
- Infant Cry Detection Using Causal Temporal Representation** [ICASSP 2025](#)   
Minghao Fu, Danning Li, .., **Hawau Olamide Toyin**, Haiyan Jiang, Kun Zhang, Hanan Aldarmaki
- Dialectal Coverage and Generalization in Arabic Speech Recognition** [Arxiv](#)   
Amirbek Djanibekov\*, **Hawau Olamide Toyin\***, Raghad Alshalan, Abdullah Alitr, Hanan Aldarmaki
- Exploring the Limitations of Detecting Machine-Generated Text** [COLING 2025](#)   
Jad Doughman, Osama Mohammed Afzal, **Hawau Olamide Toyin**, Shady Shehata, Preslav Nakov, Zeerak Talat
- STTATTS: Unified Model for Speech-to-Text and Text-to-Speech** [EMNLP 2024 Findings](#)   
Hawau Olamide Toyin, Hao Li, Hanan Aldarmaki
- PolyWER: A Holistic Evaluation Framework for Code-Switched Speech Recognition** [EMNLP 2024 Findings](#)   
Karima Kadaoui, Maryam Ali, **Hawau Olamide Toyin**, Ibrahim Mohammed, Hanan Aldarmaki
- ArTST: Arabic Text and Speech Transformer** [ArabicNLP @ EMNLP 2023](#)   
Hawau Olamide Toyin\*, Amirbek Djanibekov\*, Ajinkya Kulkarni, Hanan Aldarmaki

## Education

- Mohamed Bin Zayed University of Artificial Intelligence** *PhD in Natural Language Processing* *Aug 2024 – present*
- Mohamed Bin Zayed University of Artificial Intelligence** *MSc in Machine Learning* *Aug 2022 – Jun 2024*
- Thesis: **STTATTS: Unified Model for Speech-to-Text and Text-to-Speech** (EMNLP 2024)

## Experience

- Visiting Researcher** *Pisa, Italy*  
*ISTI CNR* *April 2025 – Present*
- Multimodal Retrieval for Ancient Arabic, Greek, Latin Texts
- Research Associate** *Abu Dhabi, UAE*  
*MBZUAI* *Jun 2024 – Aug 2024*
- Co-Authoring Dialectal Coverage and Generalization in Arabic Speech Recognition
- Teaching Assistant** *Abu Dhabi, UAE*  
*MBZUAI* *Jan 2024 – May 2024*
- Research Assistant Intern** *Abu Dhabi, UAE*  
*MBZUAI* *May 2023 – Jul 2023*
- Co-Authoring ArTST: Arabic Text and Speech Transformer (ArabicNLP @ EMNLP 2023)
  - Won Best Paper Award for ArTST
- Data Scientist** *Lagos, Nigeria*  
*Izifin* *March 2022 – Jul 2022*

## Leadership and Volunteering

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<b>Birds of Feathers Program Co-Chair</b> <i>COLING 2025</i>	Jan 2025
<b>Program Facilitator</b> , AI Summer School <i>MBZUAI</i>	Jul 2024
<b>AI Training Facilitator</b> , MBZUAI Executive Program <i>The Academy, MBZUAI</i>	2024
<b>President</b> , Graduate Student Council <i>MBZUAI</i>	Aug 2023 - Apr 2024
<b>Public Relations Coordinator</b> , Graduate Student Council <i>MBZUAI</i>	Sep 2022 - Aug 2023

## Honors and Awards

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- **Research Fellowship Grant** from ITSERR - Italian Strengthening of the Esfri Ri Resilience - Trans-National Program, 2024
- **Inspirational Leader Award** at MBZUAI commencement, 2024
- **Best Paper Award** at ArabicNLP, 2023
- **Champion** at GITEX x Ali Baba Cloud Hackathon, 2023
- **Recipient**, United Arab Emirates Government Graduate Scholarship, 2022
- **Selected Scholar** for Cornell, Maryland, Max Planck Pre-Doctoral Research School (CMMRS), 2021

## Projects

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<b>Dataset and Model for Multimodal Dialectal Arabic Diacritic Restoration</b> Hawau Olamide Toyin, Haram Altaf, Hamad Alshehhi, Auriza Akbar	<a href="#">Spring 2025</a> <a href="#">↗</a>
<b>Are LLMs Contextual Text Diacritizers? An Arabic, Yoruba Case Study</b> Hawau Olamide Toyin	<a href="#">Spring 2025</a> <a href="#">↗</a>
<b>Analyzing the Impact of Speaker Anonymization on Downstream Speech Tasks</b> Hawau Olamide Toyin	<a href="#">Spring 2025</a> <a href="#">↗</a>
<b>Computation Efficient Training for Speech Understanding and Generation</b> Amirbek Djanibekov, <b>Hawau Olamide Toyin</b> , Nurdaulet Mukhituly	<a href="#">Fall 2024</a> <a href="#">↗</a>