CURRICULUM VITAE

Assal Ali Alqudah

Computer Science/Faculty of Science and Information Technology,

Al-Zaytoonah University of Jordan, Amman, Jordan
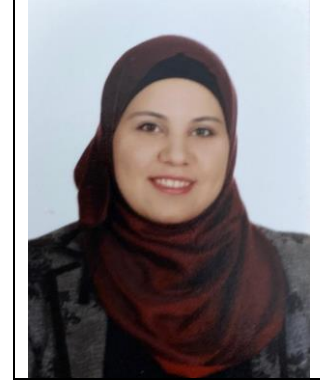
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https://scholar.google.com/citations?user=-JgUXn8AAAAJ&hl=en

1. Personal Data

Date of Birth: 15/6/1988
Nationality: Jordanian

2. Education

- Ph.D. (Computer Science) 2018, The University of Jordan, Amman, Jordan.

- M.Sc. (Software Engineering) 2011, University of Malaya, Kuala Lumpur, Malaysia.

- B.Sc. (Computer Information Systems) 2010, Yarmouk University, Irbid, Jordan.

3. Ph.D. Dissertation

Arabic Automatic Continuous Speech Recognition for Speakers with Speech Disorders, The University of Jordan, Amman, Jordan.

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4. Employment

Academic Positions

- Assistant Professor, Computer Science, Al-Zaytoonah University of Jordan, Amman, Jordan

- Part Time Trainer, Center of Consultation and Training, The University of Jordan, Amman, Jordan,
  September 12, 2022- November, 2022.
- Part Time Lecturer, Computer Science Department, Faculty of Information Technology, The World Islamic Sciences & Education University, Amman, Jordan
  July 24, 2022- September 22, 2022.
- Part Time Lecturer, The University of Jordan, Amman, Jordan
  July 11, 2021- June 26, 2022.
- Part Time Lecturer, Computer Science Department, Faculty of Information Technology, The World Islamic Sciences & Education University, Amman, Jordan
  July 11, 2021- September 05, 2021
- Assistant Professor, Computer Science Department, College of Computer Science and Engineering, Taibah University, Al Madinah, Kingdom of Saudi Arabia
  August 25, 2019- August 24, 2020
- Speech Science Consultant, Nuance Communication Services Ireland Limited, Dubai Branch, United Arab Emirates
  March 28, 2017-August 25 2019
- Research Assistant, Computer Science Department, King Abdullah II School of Information Technology, The University of Jordan, Amman, Jordan
  February 18, 2016- May 31 2018
- Part Time Lecturer, School of Business, The University of Jordan, Amman, Jordan
  September 01, 2016- January 21, 2017
- Research Assistant, Faculty of Computer Science and Information Technology, University of Malaya, Kuala Lumpur, Malaysia
  2010-2011

Administrative Positions
N/A

5. Research Interests
Research interests include but not limited to: Computer Science (CS), Artificial Intelligence (AI), Natural Language Processing (NLP), Automatic Speech Recognition (ASR), Speech and Text Processing, Software Engineering (SE), Computer Networks, Information Systems (IS), and other areas.
- Speech and Text Processing: Large Vocabulary Continuous Speech Recognition (LVCSR) for Arabic Language, Automatic Speech Recognition for Speakers with Speech Disorders, Isolated-Words Speech Recognition, Multimodal Speaker Verification and Recognition, Written and Spoken Arabic Language Resources

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Preparation and Processing, Sentiment Analysis, Opinion Mining, Rumors Detection, Text Analytics, … etc.
- Image Recognition: Bimodal and Multimodal Person Identification and Verification, Handwritten Signatures-Based Person Identification and Verification, Medical Imaging, Facial Recognition, Emotion Recognition using Facial Expressions.
- Software Engineering: Software Architecture and Design, Software Requirements Engineering, Project Management.

6. **Membership in Scientific Societies and Associations**
   N/A

7. **Honors and Awards**
   N/A

8. **Fellowships and Scholarships**
   N/A

9. **Teaching Experience**
   ➢ Full-Time Work Experience:
   - 25th August 2019 – 24th August 2020
     Assistant Professor, Computer Science Department, College of Computer Science and Engineering, Taibah University, Kingdom of Saudi Arabia.
   - 28th March 2017 – 25th August 2019
     Speech Science Consultant, Nuance Communication Services Ireland Limited, Dubai Branch.
   - 18th February 2016 – 18th August 2016, 25th October 2016 – 25th January 2017, and 1st June 2017 – 31st May 2018
   - Research Assistant, Computer Science Department, King Abdullah II School of Information Technology, The University of Jordan, Jordan.
     ➢ Part-Time Work Experience:
   - 24th September 2022- Current
     Part Time Trainer for a training course entitled "International Computer Driving License (ICDL)", Center of Consultation and Training, The University of Jordan, Jordan.
   - 12th September 2022- 22nd September 2022
     Part Time Trainer for a training course entitled "Advanced Excel", Center of Consultation and Training, The University of Jordan, Jordan.
   - 24th July 2022- 22nd September 2022
     Part Time Lecturer, Teaching two courses entitled "Principles of Data Transmission Through Networks" and "Object Oriented Programming using Java", Computer Science Department, Faculty of Information Technology, The World Islamic Sciences & Education University, Jordan, Summer Semester of the academic year 2021/2022. 3
   - 20th February 2022- 26th June 2022
     Part Time Lecturer, Teaching a university obligatory course entitled "Communication Skills", The University of Jordan, Jordan, First Semester of the academic year 2021/2022.

- 10th September 2021 – 7th January 2022
  Part Time Lecturer, Teaching a university obligatory course entitled "Communication Skills", The University of Jordan, Jordan, First Semester of the academic year 2021/2022.
- 11th July 2021 – 5th September 2021
  Part Time Lecturer, Teaching a university obligatory course entitled "Learning & Research Skills", The University of Jordan, Jordan, Summer Semester of the academic year 2020/2021.
- 11th July 2021 – 5th September 2021
  Part Time Lecturer, Teaching a course entitled "E-Commerce", Computer Science Department, Faculty of Information Technology, The World Islamic Sciences & Education University, Jordan, Summer Semester of the academic year 2020/2021.
- 1st September 2016 – 31st January 2017
  Part Time Lecturer, Management Information Systems Department, School of Business, The University of Jordan, Jordan, first semester of the academic year 2016/2017.
- 2010 – 2011
  Research Assistant, Faculty of Computer Science and Information Technology, University of Malaya, Malaysia.

  - *Graduate Courses*
    N/A
  - *Undergraduate Courses*

    E-Commerce
    Programming I
    Programming II
    Web Development
    Object Oriented Programming using Java
    Principles of Data Transmission Through Networks
    Learning & Research Skills
    Communication Skills

10. **Supervision of Graduate Research**
    N/A
11. **Grants**
    N/A
12. **Patents**
    N/A
13. **Membership of Committees**

    - **National and International**
      Member of the Organizing Committee, Technical Committee, and Editing Committee of the biannual International Conference on Information

Technology, at ZUJ, Amman, Jordan from October 2022- Now.

- **University**
  - Head of the Computer-Science Academic Advising, Training & Alumni Follow-Up Committee from 10/2022 – Now.
  - A member of the Computer Science Social Committee from 10/2022- Now.
  - Member of student's academic advising committee, Computer Science Department, College of Computer Science and Engineering, Taibah University, Kingdom of Saudi Arabia from 1 September 2019 – 24 August 2020.

14. Professional and Scientific Meetings

Scientific Meetings Organized

- Appointed as a *Guest Co-Editor* for a special issue on "Arabic Natural Language Processing and Speech Recognition Using Deep and Machine Learning Approaches", which will be hosted by the International Journal of Speech Technology, Springer. 1 November 2020 – Current.
- Special Session Organizer, a specialized session entitled "Arabic Natural Language Processing: Algorithms, Tools, Techniques, and Applications" is organized with other team members, which was conducted in conjunction with "The 19th IEEE International Symposium on Signal Processing and Information Technology", Ajman, UAE. 10 December 2019 – 12 December 2019
- Keynote Speaker in the "1st International Conference on Embedded Systems and Artificial Intelligence" FSDM, USMBA. FES, Morocco. The keynote speech title is "Adapting Automatic Speech Recognition Technology for Speakers with Speech Disorders". 2 – 3, May 2019

Participation in Scientific meetings

- Trainee, attending a training entitled "Entrepreneurship and Innovation", which is conducted by Faculty for Factory Program in collaboration with The University of Jordan and Orange, Amman, Jordan. 18 September 2022 – 22 September 2022.
- I participated at the New Trends in Information Technology (NTIT 2017) conference, which was organized by King Abdullah II School for Information Technology, University of Jordan. 25 – 27, April 2017
- I participated as a presenter at the Postgraduate Research Excellence Symposium (PGReS), which was organized by Faculty of Computer Science and Information Technology, University of Malaya. 26 – 27, September 2011
- I have participated in a 4 month workshop on Success Skills, which was organized by INJAAZ (Securing Economic Opportunities for Jordanian Youth), Jordan. September 2009 – January 2010
- I have participated in a 4 months workshop on Working Ethics, which was organized by INJAAZ (Securing Economic Opportunities for Jordanian Youth), Jordan. September 2009 – January 2010

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15. Participation in or organization of curricular and/or extra-curricular activities
N/A

16. Publications

Journals:

1) **Assal A. M. Alqudah**, Mohammad A. M. Abushariah, Mohammad A. M. Alshraideh, and Ahmad A. S. Sharieh (2022). Modern Standard Arabic Speech Corpus for Speakers Suffering Speech Disorders. (*Submitted*)

2) **Assal A. M. Alqudah**, Mohammad A. M. Alshraideh, Ahmad A. S. Sharieh, and Mohammad A. M. Abushariah (2022). Arabic Automatic Continuous Speech Recognition for Speakers with Speech Disorders using Pocketsphinx Tools. (*Submitted*)

3) **Assal A. M. Alqudah**, Mohammad A. M. Alshraideh, Ahmad A. S. Sharieh, and Mohammad A. M. Abushariah (2022). Arabic Automatic Speech Recognition for Speech Disorders: Review, Taxonomy, Resources, Opportunities, and Open Challenges. (*Submitted*)

4) Ahmad A. M. Abushariah, Mohammad A. M. Abushariah, Teddy Surya Gunawan, J. Chebil, **Assal A. M. Alqudah**, Hua-Nong Ting, and Mumtaz Begum Peer Mustafa (2021). Fusion of Speech and Handwritten Signatures Biometrics for Person Identification. (*Accepted*)

5) Ahmed Ali, Shammur Chowdhury, Mohamed Afify, Wassim El-Hajj, Hazem Hajj, Mourad Abbas, Kamel Smaili, Nada Ghneim, Mohammad Abushariah, and **Assal Alqudah**, (2021). Connecting Arabs: Bridging the Gap in Dialectal Speech Recognition. *Communications of the ACM*, Vol. 64, No. 4, pp. 124 – 129.

6) **Assal A. M. Alqudah**, Mohammad A. M. Alshraideh, and Ahmad A. S. Sharieh (2020). Arabic disordered speech Phonetic Dictionary Generator for automatic speech recognition. *Journal of Theoretical and Applied Information Technology (JATIT)*, Vol. 98, No. 4, pp. 571 – 586.

7) Mohammad A. M. Abushariah, and **Assal A. M. Alqudah** (2016). Automatic Identity Recognition Using Speech Biometric. *European Scientific Journal*, Vol. 12, No. 12, pp. 43 – 63.

8) Mohammad A. M. Abushariah, **Assal A. M. Alqudah**, Omar Y. Adwan, and Rana M. M. Yousef, (2014). Automatic Heart Disease Diagnosis System Based on Artificial Neural Network (ANN) and Adaptive Neuro-Fuzzy Inference Systems (ANFIS) Approaches. *Journal of Software Engineering and Applications*, Scientific Research Publishing, Vol. 7, No. 12, pp. 1055 - 1064.

9) Mohammad Abd-Alrahman Mahmoud Abushariah, Raja Noor Ainon, Roziati Zainuddin, **Assal Ali Mustafa Alqudah**, Moustafa Elshafei Ahmed, Othman Omran Khalifa (2012). Modern Standard Arabic Speech Corpus for Implementing and Evaluating Automatic

Continuous Speech Recognition Systems. *Journal of the Franklin Institute*, Elsevier, Vol. 349, No. 7, pp. 2215 – 2242.

Chapter In Book:
1) Alqudah, Assal Ali Mustafa, Zainuddin, Roziati, Abushariah, Mohammad A. M., and Khalifa, Othman Omran, (2011). Automatic Identity Recognition Systems: A Review. In Khalifa, Othman Omran, Hameed, Shihab A., and Khan, Sheroz (Eds.). *Human Behaviour Recognition, Identification and Computer Interaction*. IIUM Press, Kuala Lumpur, pp. 192 – 205. ISBN 978–967–418–156– 7.

2) Abushariah, Mohammad A. M., Zainuddin, Roziati, **Alqudah, Assal Ali Mustafa**, and Khalifa, Othman Omran, (2011). Arabic Automatic Continuous Speech Recognition Systems. In Khalifa, Othman Omran, Hameed, Shihab A., and Khan, Sheroz (Eds.). *Human Behaviour Recognition, Identification and Computer Interaction*. IIUM Press, Kuala Lumpur, pp. 306 – 316. ISBN 978– 967–418–156– 7.

3) Abushariah, Mohammad A. M., Zainuddin, Roziati, **Alqudah, Assal Ali Mustafa**, and Khalifa, Othman Omran, (2011). Speaker's Variabilities, Technology and Language Issues That Affect Automatic Speech and Speaker Recognition Systems. In Khalifa, Othman Omran, Hameed, Shihab A., and Khan, Sheroz (Eds.). *Human Behaviour Recognition, Identification and Computer Interaction*. IIUM Press, Kuala Lumpur, pp. 298 – 305. ISBN 978–967–418–156– 7.

4) Mohammad A. M. Abushariah, Raja N. Ainon, Roziati Zainuddin, Bassam A. Al- Qatab and **Assal A. M. Alqudah**, (2010). Impact of a Newly Developed Modern Standard Arabic Speech Corpus on Implementing and Evaluating Automatic Continuous Speech Recognition Systems. In Lee, G. G., Mariani, J., Minker, W., and Nakamura, S. (Eds.). *Spoken Dialogue Systems for Ambient Environments* Proceedings of the Second International Workshop on Spoken Dialogue Systems Technology (IWSDS'10), Gotemba, Shizuoka, Japan, Lecture Notes in Computer Science (LNCS), Volume 6392, pages 1 – 12, Springer-Verlag.

International Conferences:
1) Alshamaileh, Yazan, Mannam Zamzeer, Hamad Alsawalqah, and **Assal Alqudah**, (2017). Understanding the determinants of enterprise resource planning adoption in Jordan. *8th International Conference on Information Technology (ICIT), IEEE*, pp. 883-888.

2) Fawaz Ahmad Al-Zaghoul, Amjad Hudaib, Mohammad Abushariah, and **Assal Alqudah**, (2015). A Suggested Framework for Software Requirements Classification. *Proceedings of the IEEE 17th UKSIM-AMSS International Conference on Modelling and Simulation*, Cambridge, United Kingdom, pp. 261 - 264.