Emad Alghamdi

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Education

University of Melbourne, Australia

2017 - 2021

PhD in Computational Linguistics

Thesis: Automated Video Difficulty Assessment

Co-supervised by Dr. Paul Gruba (Linguistics) and Dr. Eduardo Velloso (Computer Science)

Missouri State University, USA

2012 - 2014

M.S. in Educational Technology

GPA: 4/4

Missouri State University, USA

2010 - 2013

M.A. in English Linguistics

GPA: 3.97/4

Projects

Automatic Text Difficulty Adjustment

2022-2023

- An innovative web reading system that automatically adjusts reading difficulty
- The system uses advanced NLP algorithm, sensor technologies (eye-tracker and thermal camera)
- o The project is a collaboration with expert researchers from Monash Uni, Melbourne Uni, and Adobe Inc.

Arabic Font Optimization

2022-2023

• The project is a collaboration with expert researchers from Google Font Team.

Arabic Text Readability

2022-2023

- An open-sourced web app for assessing text readability for Saudi students in general education (K1-12)
- The system uses advanced NLP algorithm and machine learning (weak supervision)

AUVANA 2021

- A cross-platform desktop software for automated video analysis
- Uses advanced computer vision algorithms for analyzing complexity in videos

KAUx 2013-2017

- KAUx is the first MOOC platform in Saudi Arabia.
- It offers free online training courses to university faculties and students

CrowdyQ 2015

A virtual crowdsourcing platform for generating and evaluating test items

Scholarships and Awards

Best PhD thesis (nomination)

2021

My PhD thesis was nominated for the best PhD thesis award in the University of Melbourne

Research Excellence Award

2019

Awarded by the Saudi Cultural Attaché in Australia.

Received for pursuing my PhD research at the University of Melbourne.

2012-2013

2017-2021

Excellence Award

• Awarded by the Saudi Cultural Attaché in USA for excelling academically throughout the school year.

Certificate of Appreciation

June 2019

 Awarded by the Saudi Cultural Attaché in Washington, D.C for leadership as a president of the Saudi Club at Missouri State University.

Letter of Appreciation

PhD Scholarship

June 2019

Awarded by the Saudi Cultural Attaché in Washington, D.C for writing an article about volunteerism.

Experience	
Director of the Al in Language Learning & Assessment Lab http://www.ailla.tech	2022
Head of Research Unit English Language Institute, King Abdulaziz University	2022
Assistant Professor in Computational Linguistics King Abdulaziz University	2022
Data Scientist Intern Melbourne Data Analytics Platform, University of Melbourne	September 2020 – February 2021
 Worked on NLP projects using weak supervision techniques Causal Instructor University of Melbourne Taught a Master-level course on Technology and Language Learning 	July 2019 – August 2019
Founder & CEO Dropzin - On-demand Shipping & Delivery Founded the startup Administered day-to-day operations	2015 – 2017
Director of e-training Unit King Abdulaziz University • Founded KAUx an Arabic MOOC platform • Led a team of faculty members, administrators, and on-site and remot • Designed and developed two MOOCs on innovation and critical thinking	
 Head of Distance Learning Unit King Abdulaziz University Administered online English programs (7K+ Students) and 40+ instru Trained faculty members on using several education technologies 	2013 - 2016 actors
LecturerKing Abdulaziz UniversityTaught English courses for university students	2008-2010 — 2013-2016
Personal Development	
Machine Learning with TensorFlow on Google Cloud Platform Coursera-A 5-course specialization by Google Cloud Introduction to TensorFlow How Google does Machine Learning Feature Engineering Launching into Machine Learning Art and Science of Machine Learning	m 2018
International License for Entrepreneurship 75-hour Training Course, Jeddah, Saudi Arabia	2016
Design and Development of Educational Technology, MIT edX	2014
Entrepreneurship 101: Who is your customer?, MIT edX	2014
Statistics: Making Sense of Data, University of Toronto Coursera	2014
Competitive Strategy, Ludwig-Maximilian University of Muni Coursera	ich 2013
Justice, Harvard	2013

Internet History, Technology,& Security, University of Michigan

Coursera

2012

2013

Inspiring Leadership through Emotional Intelligence, Case Western Reserve University

edX

Coursera

Publication

Book Chapters:

- Nawaz, Sadia, Alghamdi, Emad A, et. al (2022). Understanding the role of AI and learning analytics techniques in addressing task difficulties in STEM education. In: Artificial Intelligence in STEM Education: The Paradigmatic Shifts in Research, Education, and Technology.
- Alghamdi, Emad A (2018). Effects of Using Multimodal Glosses in Video Games to Enhance Incidental Vocabulary Learning and Retention. In: Handbook of Research on Integrating Technology Into Contemporary Language Learning and Teaching. Chap. 2, pp. 427–448

Journal Articles:

- **Alghamdi, Emad A**, Paul Gruba, and Eduardo Velloso (in press). The Relative Contribution of Verbal Complexity to Second Language Video Lectures Difficulty Assessment. The Modern Language Journal: 4/194 (Linguistics)
- **Alghamdi, Emad A**, Paul Gruba, Ahemd Mersi, et al. (2022). The Use of Lexical Complexity for Assessing Difficulty in Instructional Videos. Language Learning and Technology. 8/194 (linguistics).
- **Alghamdi, Emad A**, Eduardo Velloso, and Paul Gruba (2021). AUVANA: An Automated Video Analysis Tool for Visual Complexity. DOI: https://doi.org/10.31219/osf.io/kj9hx
- **Alghamdi, Emad A** and Sayyed Rashid Shah(2018). Exploring the Effects of Mobile-Based Audience Response System on EFL Students' Learning and Engagement in a Fully Synchronous Online Course. International Journal of English Linguistics 8.3, p.92. DOI:10.5539/ijel.v8n3p92
- **Alghamdi, Emad A** and Hussam Rajab(2016). Unmonitored students self-created WhatsApp groups in distance learning environments: A collaborative learning tool or cheating technique. International Journal of Research, 5.2,pp.71–82
- Alghamdi, Emad A (2016). Untangling Multimedia Effects on EFL Incidental Vocabulary Learning via Playing an Online Hidden-Object Game. International Journal of Computer-Assisted Language Learning and Teaching, 6.1, pp.24–39.ISSN:2155-7098
- **Alghamdi, Emad A** (2015). The Representation of Islam in Western Media: The Coverage of Norway Terrorist Attacks. International Journal of Applied Linguistics and English Literature, 4.3,pp.198–204.ISSN:22003592
- Alghamdi, Emad A (2014). Gulf Pidgin Arabic: A Descriptive and Statistical Analysis of Stability. International Journal of Linguistics, 6.6, p.110

Conference Proceedings:

- **Alghamdi, Emad A**, Fahad Otaif ,and Paula Gruba (2018). Designing a video playing interface for second language learners. ASCILITE2018.November,pp.298–302
- Alghamdi, Emad A A., N. R. Aljohani, et. al. (2015). CrowdyQ: A virtual crowdsourcing platform for question items development in higher education. 17th International Conference on Information Integration and Web-Based Applications and Services, iiWAS2015-Proceedings

VOLUNTEER

Founding Director 2015 – 2016

Afagi Learning Hubs

President of the Saudi Student Club 2012-2013

Missouri State University, MO, USA

English-Arabic Translator 2012-2014

TED

Journal Reviewer

Behavior Research Methods, Language Learning and Technology, Interactive Learning Environments, Sage Open

Skills

Natural Languages: Arabic (Native), English (Fluent)

Programming Languages: Python, R, JavaScript

Machine Learning, NLP, & CV: TensorFlow, Keras, Scikit-learn, spaCy, OpenCV, NLTK

Web and Desktop Technologies: HTML, CSS, AWS, Vue, Electron, Django, Flask. Streamlit

Statistics: RStudio, SPSS