

RESUME/CURRICULUM VITAE

Name: Mohammed Abdulrahman Alliheedi

Address: Al-Baha, Al-Baha University, Faculty of Computer Science and Information Technology

Phone contacts: +966533342007

Email address: malliheedi@bu.edu.sa

staff profile homepage: [Web Page](#), [Linkedin](#)

Nationality: Saudi

CAREER PROFILE/SUMMARY

- Assistant Professor in the Faculty of Computing and Information Technology at AlBaha University, Saudi Arabia

EDUCATION/ACADEMIC QUALIFICATIONS

- Ph.D. Computer Science: Graduated: 2019
University of Waterloo.
Advisor: Prof. Robin Cohen and Prof. Robert E. Mercer

The thesis is focused in building a framework for automated argumentation analysis in experimental procedure which involves developing the following components: Ontology-based knowledge representation for experimental procedures, lexical semantics for procedural verbs in biomedical genre, creation of annotated corpus for experimental procedures, and then linking all components to the overall framework for argumentation analysis.

- M.S. Computer Science: Graduated: 2012
University of Waterloo
Advisor: Prof. Chrysanne Di Marco and Prof. Charles Clarke

The thesis goal is to develop a multi-document summarizer system using automated detection of rhetorical figures—characteristic syntactic patterns of persuasive language—to provide information for an additional metric to enhance the performance of the summarizer. The summarizer was tested on U.S. presidential speeches. The thesis involved annotation study for the speeches.

- B.Sc. Computer Science: Graduated: 2006
King Abdulaziz Univeristy
Advisor: Dr. Mustafa Alsied Salah

Developing Monitoring Law-breaking in Crowded Places which is a tool that automatically analyse and diagnose various data in crowded places, such as malls and hyper markets, that need to be monitored by providing a recommendation to ensure more attention is given to specific areas. Various statistical reports that show and present incidents in each area are provided too.

EMPLOYMENT HISTORY

- Assistant Professor in the Faculty of Computer Science and Information Technology at AlBaha University, Saudi Arabia 2019 - Present
- Lecturer in the Faculty of Computer Science and Information Technology at AlBaha University, Saudi Arabia 2014 - 2019
- Teaching Assistant (TA), University of Waterloo, Canada 2013 - 2013
- Teaching Assistant in the Faculty of Computer Science and Information Technology at AlBaha University, Saudi Arabia. 2008 - 2014
- Teaching Assistant in the Faculty of Science, at Umm Al Qura University in Al Baha, Saudi Arabia. 2007 - 2008
- Oracle Developer, Al-Noor Hospital, Saudi Arabia 2006 - 2007
- Network Analyst, International Business Machine (IBM), Saudi Arabia. 2006 - 2006

PUBLICATIONS

Publications

- Alliheedi, M., & Mercer., R. E.. (2020). **Semantic Search for Biomedical Texts using Predicate-Argument Structure**. In *Proceedings of the 12th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management - Volume 2: KEOD* (pp. 299-306). INSTICC. doi:10.5220/0010150702990306
- Alliheedi, M., Wang, Y., & Mercer, R. E.. (2020). **Design of a Biochemistry Procedure-Oriented Ontology**. In *the Communications in Computer and*

Information Science book series (Vol. 1297, pp. 65-387). Springer. Retrieved from https://doi.org/10.1007/978-3-030-66196-0_17

- Alliheedi, M.. (2019). **Procedurally Rhetorical Verb-Centric Frame Semantics as a Knowledge Representation for Argumentation Analysis of Biochemistry Articles**. *Computer Science*. Retrieved from <http://hdl.handle.net/10012/15021>
- Alliheedi, M., Wang, Y., & Mercer, R. E.. (2019). **Biochemistry procedure-oriented ontology: A case study**. In *the 11th International Conference on Knowledge Engineering and Ontology Development* (Vol. 2, pp. 164-173). 17 September, Science and Technology Publications (SCITEPRESS). Retrieved from <https://www.scitepress.org/PublicationsDetail.aspx?ID=cIetqK9MzqI=&t=1>
- Alliheedi, M., Mercer, R. E., & Cohen, R.. (2019). **Annotation of Rhetorical Moves in Biochemistry Articles**. In *Workshop on Argument Mining collocated with ACL 2019* (p. 113--123). 1 August 2019, Association for Computational Linguistics. Retrieved from <https://www.aclweb.org/anthology/W19-4514>
- Alliheedi, M., Mercer, R. E., & Haas-Neill, S.. (2019). **Ontological Knowledge for Rhetorical Move Analysis**. In *International Conference on Computational Linguistics and Intelligent Text* (Vol. 23). 07 April 2019. Retrieved from <https://www.cys.cic.ipn.mx/ojs/index.php/CyS/article/view/3282>
- Alliheedi, M., & Mercer, R. E.. (2019). **Semantic Roles: Towards Rhetorical Moves in Writing About Experimental Procedures**. In *Canadian Conference on Artificial Intelligence* (Vol. 11489, pp. 518-524). springer. Retrieved from https://link.springer.com/chapter/10.1007/978-3-030-18305-9_54
- Alliheedi, M., & DiMarco, C.. (2014). **Rhetorical Figuration as a Metric in Text Summarization**. In *Canadian Conference on Artificial Intelligence* (1st ed., Vol. 8436, pp. 13-22). springer. Retrieved from https://link.springer.com/chapter/10.1007/978-3-319-06483-3_2
- Alliheedi, M.. (2012). **Multi-document Summarization System Using Rhetorical Information**. *Computer Science*. Retrieved from <https://uwaterloo.ca/handle/10012/6820>

TEACHING EXPERIENCE

Assistant Professor, AlBaha University.

Winter 2021

Course: Intro to Algorithms and Problem solving

Course: Selected Topics in Computer Science

Course: Matrices and Linear Algebra

Assistant Professor, AlBaha University.

Fall 2020

Course: Data Visualization

Course: Natural Language Processing

Course: Senior Project (II)

Assistant Professor, AlBaha University.
Course: Data Visualization
Course: Probability and Statistics

Spring-Summer 2020

Assistant Professor, AlBaha University.
Course: Selected Topics in Computer Science
Course: English for Special Purpose
Course: Senior Project (I)

Winter 2020

Lecturer, AlBaha University.
Course: Intro to Algorithms and Problem solving
Course: Probability and Statistics

Fall 2019

Teaching Assistant, University of Waterloo
Course: Logic and Computation

Fall 2013

Teaching Assistant (TA), AlBaha University (BU).
Course: Introduction to Computer Science

Fall 2007

COMMITTEES

- Head of Questionnaire Committee, Faculty of Computer Science and Information Technology, Al Baha University
- Member of E-Learning Committee, Faculty of Computer Science and Information Technology, Al Baha University
- Member of Faculty Development Committee, Faculty of Computer Science and Information Technology, Al Baha University
- Member of Student Academic Affairs Committee, Faculty of Computer Science and Information Technology, Al Baha University
- Member of Quality and Development Unit, Faculty of Computer Science and Information Technology, Al Baha University
- Member of Academic Research Committee, Faculty of Computer Science and Information Technology, Al Baha University

AWARDS

- (2003, 2004, 2005), Award for Best Student Performance, King Abdulaziz University