

Personal Information

Name: Emad Alharbi

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Research Interests

My research area is artificial intelligence (AI). Especially, using machine learning and metaheuristic to build protein structure from an electron-density map. Moreover, I'm also working on NLP.

Qualifications

- **PhD in Computer Science. Department of Computer Science, University of York, UK. (Expected 2021)**

- **MSc in Advanced Computer Science, July 2017. Department of Informatics, University of Leicester, UK. (Awarded with Distinction)**

Thesis Title: XML Fuzzing.

Supervisor: Dr Nir Piterman.

- **BSc in Computer Science , June 2012 . Collage of Computer and Information technology , University of Tabuk , Saudi Arabia.**

Thesis Title: iTabukUniv, An iPhone Application to assist University of Tabuk's staff members, students and guest users.

Supervisor: Dr Ghazi Al-Naymat.

Academic Employment

- 2016 - Present, Demonstrator at University of Tabuk, Saudi Arabia.

Industry Employment

- Dec 2013 - Aug 2014, Developer, North West Armed Forces Hospital, Tabuk, Saudi Arabia.

Publications

- **Alharbi, E.**, Calinescu, R. and Cowtan, K., 2020. Pairwise running of automated crystallographic model-building pipelines. *Acta Crystallographica Section D: Structural Biology*, 76(9). <https://doi.org/10.1107/S2059798320010542>
- **Alharbi, E.**, Bond, P. S., Calinescu, R., & Cowtan, K. (2019). Comparison of automated crystallographic model-building pipelines. *Acta Crystallographica Section D Structural Biology*, 75(12). <https://doi.org/10.1107/s2059798319014918>

Teaching Assistant

- Theory & Practice of Programming (University of York, Autumn 2018)
- Data Structures and Development Environments (University of Leicester, Spring 2017)

Technical Certificates

- Microsoft Specialist Programming in C#
- Microsoft Technology Associate: Database Fundamentals
- Microsoft Certified Solutions Associate: Windows Server 2012 (MCSA)

Awards

- Highly Commended Poster in York Doctoral Symposium 2017- University of York, UK
- Best MSc Technical Project Prize 2017 - University of Leicester, UK
- Two Times the first winner in Scientific Students Forum at University of Tabuk in 2011 and 2012.

Conferences

- CCP4 Study Weekend 2020.
- CCP4 Study Weekend 2019.
- CCP4 Study Weekend 2018.
- The Tenth York Doctoral Symposium on Computer Science and Electronics (YDS 2017).

Workshops and Training Courses

- Workshop on Machine Learning Applications in Macromolecular Crystallography and Cryo-Microscopy (Sept 2020)
- Introduction to Viking Research Computing Cluster (Viking) (Jan 2019).
- Introduction to York Advanced Research Computing Cluster (Yarcc) (Feb 2018).
- Analysing and using 3D structures in molecular bioscience research (2017).
- Introduction to Teaching and Learning (Nov 2017).

Technical Skills

Programming Languages	C#, Objective C, JAVA, R and C++
DBMS and Tools	SQL, MySQL
Software Packages	Xcode, Visual Studio, Eclipse, Protégé and Jmetal
ML frameworks	Weka and mlpack

Smartphone projects

From 2012 to 2016, I developed some IOS applications such as applications for real estate and cars advertising as well as games board.

Languages

- Arabic (native speaker).
- English.