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#### **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). <a href="https://doi.org/10.1107/S2059798320010542">https://doi.org/10.1107/S2059798320010542</a>
- 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). <a href="https://doi.org/10.1107/s2059798319014918">https://doi.org/10.1107/s2059798319014918</a>

# **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, C++ and Python

**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.