

Curriculum Vitae

DR. Eidah M. Alzahrani (BSc, PGDip, MSc, PhD)

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Academic Qualifications

- **PhD in Computer Science** (2021), The university of Sheffield, Sheffield, UK. Thesis's title "The Impact of Minimising Data Movement on the Overall Performance of the Simulation Of Complex Systems Applied to FLAME GPU"
- **MSc in Computing Systems** (2013), Nottingham Trent University, Nottingham, UK. Thesis's title is "JAVA TO CUDA TRANSCOMPILER for Generating an Efficient CUDA Code"
- **PGDip in Computer Systems Security** (2010), University of Glamorgan, Cardiff, UK.
- Different advanced courses in English languages (2007-2009), Cardiff, UK.
- **BSc Computer Science** (2005), King AbdulAziz University, Jeddah, KSA.

Languages:

Native Arabic and fluent English,

experience

- Supervisor of Computer Science and Engineering Department, (Female Section), College of Computer Science and Information Technology, Al Baha University.
- Vice President of Quality and Academic Accreditation Unit at the College - College of Computer Science and Information Technology - University of Al Baha

- Assistant Professor of software Engineering and computer science at Computer Science and Engineering Department - College of Computer Science and Information Technology - Al Baha University.
- Member of the department's professional development committee
- Responsible for Academic Advising, Department of Computer Science and Engineering, Female Section
- Lecturer, Department of Computer Science and Engineering - College of Computer Science and Information Technology - Al Baha University. 2016-2021.

Teaching Experience:

- Software Engineering
- Natural language processing
- Compiler Design and Theory
- Parallel and distributed computing
- Algorithmic Problem Solving
- Computer Organization and architecture
- Machine Learning

Current research projects:

- Supervising a master's project entitled:
(Stocks market prediction using Support Vector Machine)
- Supervising a master's project entitled:
(Using Supervised Machine Learning Algorithms to predict Covid-19 cases in Saudi Arabia)
- Supervising a master's project entitled:
(Blockchain Based technology for certificate verification system in Saudi Arabia)

Skills and Research Interests:

- Programming in different languages: C + + - OOP - JAVA - HTML - CUDA Python.
- The development of compilers programming languages (Compilers)
- Software Engineering

- Systems Analysis and Design
- Development of Internet application

High performance computing, Complex modelling and simulation, Parallel Computing using Graphics Processing Units (GPUs).

Training and participations:

- Presented a poster on DCS Research Retreat 2015.
- Presented a poster on DCS Research Retreat 2017
- Presented a poster on ABM 2017 mini-conference at the University of Sheffield
- Gave a presentation on (The 17th International Conference on High Performance Computing & Simulation (HPCS 2019)). Dublin, Ireland, July 2019.
- Gave a presentation on (23rd International European Conference on Parallel and Distributed Computing). Santiago de Compostela (Spain) August 2017.
- Attended Introduction to CUDA Training Session 2015
- Attended 2-day CUDA course 2015
- Attended the annual HPC@sheffield Research Computing event. 2015
- Attended CIC6001 Introduction to High Performance Computing and Grid Computing course 2014.
- Attended cic6006 C/C++ Programming 2014.
- Attended GPUComputing@Sheffield, seminar series.
- Attended a workshop titled Best Practices in Software Benchmarking 2016 London
- Organised the Visual Computing group seminars 2015-2016.
- Attended a number of talks, seminars and events within the university covering different area such as high performance computing, GPU computing and ABM and simulations and related topics.
- A member of Visual Computing group, Sheffield university (2014-2020)

Publication

- Alzahrani, E., Simons, A.J. and Richmond, P., 2019, July. Data Aware Simulation of Complex Systems on GPUs. In 2019 International Conference on High Performance Computing & Simulation (HPCS) (pp. 567-574). IEEE. [paper]

- Alzahrani, E., Richmond, P. and Simons, A.J., 2017, August. A formula-driven scalable benchmark model for ABM, applied to FLAME GPU. In European Conference on Parallel Processing (pp. 703-714). Springer, Cham. [paper]
- Alzahrani, E. 2017, November. A formula-driven scalable benchmark model for ABM, applied to FLAME GPU. In ABM mini conference, the university of Sheffield. [poster]
- Alzahrani, E. 2016, April. Investigation of new techniques to enhance tasks scheduling and runtime system in FLAME GPU. In the University of Sheffield Research Retreat. [poster]