

Sumaya Ihsan Mnawer Abusaleh

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PROFILE

Uphold a key role as an Assistant Professor at a leading university. Exceptional experience and knowledge in software development and a strong background in advanced computer science and engineering courses: Python, C#, and C++ programming languages, deep learning, computer vision, digital image processing, wireless sensor network, network security, parallel and distributed computing, computer architecture, and robotics. Seeking to expand knowledge while successfully employing innovative solutions. Thrive under pressure in a challenging environment with a strong work ethic, excellent leadership, communication, and public speaking skills, and have extensive experience working with diverse communities.

EDUCATION

Doctor of Philosophy in Computer Science and Engineering, University of Bridgeport (UB), Bridgeport, CT **2017**
Dissertation topic: "A Novel Computer Vision-Based Framework for Supervised Classification of Energy Outbreak Phenomena," Advisor: Dr. Ausif Mahmood, Co-advisor: Dr. Khaled Elleithy

Master of Computer Science, Amman Arab University for Graduate Studies, Amman, Jordan **2007**

Bachelor of Computer Science, Mutah University, Al-Karak, Jordan **2003**

Associate Degree in Programming, Al-Balqa Applied University, Ma'an, Jordan **2000**

TECHNICAL SKILLS

Programming: Jython, Python, C#, Java, C++, Visual Basic, C, PASCAL, Assembly
Operating Systems: Windows 9x/ 2000/ NT/XP/VISTA/7/10, MS-DOS, SUNOS, Ubuntu
Software: Statistical Package for the Social Sciences (SPSS), Macromedia Director 8.5, Adobe flash, Adobe Photoshop CS6, Sound Forge Pro, SQL Server, Oracle, Eclipse IDE for Java, Microsoft FrontPage, MS-office
Networking: Cisco CCNA

EXPERIENCE

Assistant Professor, Department of Software Engineering, School of Information Technology **2018 – Present**
Al-Hussein Bin Talal University, Ma'an, Jordan

- Conducted lectures in Software Design and Implementation, Distributed Systems, Multimedia Systems, Windows Programming (C Sharp), and Special Topics in Computer Science (Computer Vision)

Research Associate, School of Engineering **2017 – 2018**
University of Bridgeport, Bridgeport, CT

- Conducted research in deep learning, programming deep networks, convolutional neural networks, recurrent neural networks and testing their performance on standard benchmarks. Fine tune the deep architectures to obtain improved classification accuracy

Graduate Assistant, School of Engineering **2013 – 2017**
University of Bridgeport, Bridgeport, CT

- Successfully assisted Prof. Ausif Mahmood in Windows Programming (C#) and Image Processing courses
- Conducted class lectures, proctored exams, assisted in the preparation of course materials, and graded assignments, mid-term, and final exams
- Regularly maintained flexible office hours, facilitated one-on-one and group tutoring sessions, and provided advice and support for students to resolve class-related issues

Full-Time Lecturer, Department of Information Technology **2005 – 2009**
Al-Balqa Applied University, Ma'an college, Ma'an, Jordan

- Conducted lectures in Database, Computer Networking, Multimedia Systems using Macromedia Director 8.5, Information Retrieval Systems, System Analysis, Network Management, Visual Basic, and Software Engineering
- Developed a multimedia desktop application using Macromedia Director 8.5 software about the human body at Prince Ali Bin Al-Hussein Center for Deaf Users in Amman, Jordan
- Developed a multimedia desktop application using Macromedia Director 8.5 software for fourth grade math students

System Administrator, Information Technology Center
Al-Balqa Applied University, Ma'an college, Ma'an, Jordan

2003 – 2005

- Provided software and hardware installations, system specifications, troubleshooting, maintenance, and resolved WLAN configuration problems
- Maintained college website and account management to ensure continuous updating and client satisfaction
- Successfully provided training on computer programming to employees and students, while providing them with computer technical support on Windows 98, 2000, XP, and Vista
- Assisted in the implementation of oracle registration software, and trained administrative staff

CONFERENCE PUBLICATIONS

- **S. Abusaleh**, V. Pande, and K. Elleithy, "Optimized Algorithm for Face Detection Integrating Different Illuminating Conditions", *The 2012 International Conference on Image Processing, Computer Vision, and Pattern Recognition (ICCV'12)*, Las Vegas, Nevada, USA, July 16-19, 2012.
- **S. Abusaleh**, E. Abdelfattah, Z. Alabadi, and A. Sharieh, "The Effects of Educational Multimedia for Scientific Signs in The Holy Quran in Improving the Creative Thinking Skills for Deaf Children," *Innovations in Computing Sciences and Software Engineering*, Springer, Dordrecht, pp. 403-408, 2010.

JOURNAL PUBLICATIONS

- **S. Abusaleh**, A. Mahmood, and K. Elleithy, "The Art of Reading Explosion Phenomena: Science and Algorithms," *IEEE Access Journal*, vol. 6, pp. 3280 – 3299, 2017.
- **S. Abusaleh**, A. Mahmood, K. Elleithy, and S. Patel, "A Novel Vision Based Classification System for Explosion Phenomena," *MDPI Journal of Imaging*, vol. 3, no. 2, p. 14, 2017.

REVIEWING ACTIVITIES

- **Project Committee Chair:** School of Information Technology, Al-Hussain Bin Talal University **May 2019**
- **Judge Participant:** 2019 Hult Prize, Deanship of Student Affairs, Al-Hussain Bin Talal University **December 2018**
- **Project Committee Chair:** School of Information Technology, Al-Hussain Bin Talal University **December 2018**
- **Reviewer:** IEEE Access Journal, Impact factor: 4.098 **January 2018 – Present**
- **Technical Committee:** Student member of International Joint Conference on computer, International, and System Science, and Engineering (CISSE) **2010 – 2013**

MEMBERSHIP

- **Society of Women Engineers (SWE):** Student member, UB Chapter **2014 – 2018**
- **IEEE Young Professionals:** Student member **2014 – 2018**
- **IEEE Communication Society (IEEE ComSoc):** Student member **2013 – 2018**
- **IEEE Women in Engineering Society (IEEE WIE):** Student member **2013 – 2018**
- **Upsilon Pi Epsilon (UPE):** Student member **2013 – 2018**
- **Association for Computing Machinery (ACM):** Student member **2013 – 2018**
- **National Society of Black Engineers (NSBE):** Student member, UB Chapter **2012 – 2015**

HONORS & AWARDS

- Ph.D. Award: \$7,500 for each academic semester, School of Engineering, UB **2013 – 2016**
- Woman of Innovation Competition: Nominated by Dr. Ausif Mahmood, Connecticut Technology Council **2015**
- Scholar Citizen Award- Annual Student Leadership Recognition Banquet, UB **2013**
- International Honor Society Member for the Computing and Information Disciplines Upsilon Pi Epsilon **2013**
- Graduate Poster Award- Honorable Mention, Faculty Research Day, UB **2012**
- Travel Grant Award to attend IEEE WoWMoM2011 in Lucca, Italy **2011**
- Received a full scholarship for four years to pursue a Ph.D. degree in the field of multimedia systems at UB, Scholarship sponsor: AL-Hussein Bin Talal University, Ma'an, Jordan **2009**

CONFERENCES & WORKSHOPS

- Attended the Information Day on Cooperative Higher Education for the Dual Study System in Germany and other countries, organized by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Amman, Jordan **July 18, 2019**

- Successfully conducted “My Entrepreneurial Project of the Entrepreneurial and Employment Programs,” with INJAZ, Deanship of Student Affairs, AL-Hussein Bin Talal University, Ma’an, Jordan **October 2018 – May 2019**
 - Successfully conducted a workshop on Resume Writing, School of Information Technology, AL-Hussein Bin Talal University, Ma’an, Jordan **April 29, 2019**
 - Attended a specialized training on the Design, Evaluation, and Analysis of the Electronic Questionnaires for Survey Research, AL-Hussein Bin Talal University, Ma’an, Jordan **April 7 – 15, 2019**
 - Attended a specialized training on the Criteria of the King Abdullah II Award for Excellence in the Government Performance and Transparency, organized by USAID and AL-Hussein Bin Talal University, Ma’an, Jordan **December 3 – 4, 2018**
 - Attended a specialized training on Developing and Improving the Teaching Skills of Faculty Members, AL-Hussein Bin Talal University, Ma’an, Jordan **September 16 – 20, 2018**
 - Participated in the Phi’s Research and Innovation Summit 2018 (PRSI), Amman, Jordan. **August 17 – 18, 2018**
- The following workshops were conducted in the PRSI:
- Healthcare Decision-Making in the Era of Artificial Intelligence & Data Analytics Workshop
 - Game Development Workshop Using Unity
 - Digital Fabrication and Prototyping Techniques Workshop
 - The Mont Carlo Simulation Method: A Powerful Numerical Tool for Solving Problems in Science and Engineering Workshop
 - AI Applications in Medicine and Neuroscience Workshop

RESIDENTIAL LIFE SERVICE

Community Assistant (CA), Office of Residential Life and Student Conduct **2010 – 2013**
University of Bridgeport, Bridgeport, CT

- Successfully performed daily tasks as the CA of the Graduate Residence Hall. Guaranteed the safety and health of 300+ students, such as the check in/out process, taking disciplinary action when necessary, and during a fire drill
- Obtained annual certified training in providing efficient support to residents. Responded quickly and calmly following protocol in emergency and crisis situations, such as for victims of domestic violence and injuries
- Regularly offered guidance and peer counsel to students facing a variety of challenges, such as struggles in their studies, financial difficulties, and roommate conflicts
- Conducted bi-weekly Health and Safety inspections for building maintenance, improvements and safety
- Collaborated as a team of 16 peers from different backgrounds to create programs and engaging living experiences and environments that fostered intellectual, social, and cultural respect for diverse populations of international students

COMMUNITY SERVICES

Martin Luther King Day of Service, Harborview Towers **2012**
University of Bridgeport, Bridgeport, CT

- Engaged with elderly and/or developmentally disabled residents, participated in activities, games, and served food

Cultural Awareness Event, North and South halls **2012**
University of Bridgeport, Bridgeport, CT

- Successfully proposed an idea for a cultural awareness event in the graduate residential hall that was attended by over 150 people. Lead 16 CA peers in the planning and organization of the event. Managed the responsibility of assisting 30 UB students, from all around the world, who participated in the presentation of their countries of origin and cultures.

Youth Mentor, Youth Commission of Jordan **2007 – 2008**
We Are All Jordan, Ma’an, Jordan

- Organized activities with volunteers that developed youth members’ skills to serve the community, for example, a fundraiser for orphans, collecting food, clothing, toy donations, and ran a blood drive
- Held workshops on topics such as, time management, problem solving, learning to handle a work environment
- Took the initiative to help planting trees and save the environment
- Lead group tours to Jordanian historical sites

REFERENCES

Dr. Ausif Mahmood

Professor and Chair, Computer Science and Engineering
University of Bridgeport
Engineering and Technology Building 220
221 University Avenue
Bridgeport, CT 06604
mahmood@bridgeport.edu
+1 (203) 576-4737

Dr. Khaled Elleithy

Associate Vice President for Graduate Studies and Research
Professor of Computer Science and Engineering
University of Bridgeport
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221 University Avenue
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Robert Vass, MPS

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