

Anas Mohammad Ramadan Ahmed AlSobeh

PERSONAL INFORMATION



Anas AlSobeh, Ph.D.

Assistant Professor, Program Coordinator, IEEE Senior Member, ACM SIGHPC, WiCyS Co-Faculty Advisor
Information Technology & Cybersecurity (ITEC & CTEC) Program
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SUMMARY

Dr. Anas M.R. AlSobeh is an Assistant Professor and Program Coordinator of Information Technology at Southern Illinois University Carbondale (SIUC)- Research Institution (R1), with over 10 years of academic and research experience across the United States, Jordan, and Bahrain. He holds a Ph.D. in Computer Science from Utah State University, along with both M.Sc. and B.Sc. degrees in Computer Information Systems from Yarmouk University. Dr. AlSobeh's interdisciplinary research bridges AI-driven cybersecurity, software engineering, cloud computing, and data science. His contributions include developing AI-based systems for malware detection, adversarial training models, and explainable AI frameworks for public safety and digital media forensics. Recently, he secured a USDA research grant (2024–2026) to develop an AI-powered detection system for Salmonella in onions using microscopic imaging. He has published over 50 peer-reviewed articles, many in Q1/Q2 journals indexed by Scopus and ISI, and received the 2024 IACIS Best Paper Award for his work on deepfake detection. His research has also been featured in public media and national research initiatives. Beyond academia, Dr. AlSobeh has led and contributed to numerous international projects funded by the EU (Horizon 2020, Erasmus+), GIZ, DAAD, and Nuffic, focusing on refugee education, health data systems, and cybersecurity training. As a consultant and advisor, he has collaborated with organizations like ICMPD to enhance migration data analytics, AI and Statistical analysis for migration. Dr. AlSobeh is an IEEE Senior & SIGHPC Member, a mentor with WiCyS, and a reviewer or editorial board member for leading journals such as Springer Nature, IEEE Access, MDPI Systems, JCIS, and others. His professional certifications include “Building Transformer-Based NLP Applications”, AWS Cloud Practitioner and MIT’s Data Science and Machine Learning program.

RESEARCH INTERESTS

Software Engineering, Cybersecurity Analysis, Artificial Intelligence and Machine Learning (AI/ML), High-performance computing (HPC), Data Analysis, Web Technology, Health Information Systems, Aspect-Oriented Programming (AOP), Distributed Systems, and

TEACHING INTERESTS

Computing Vision.

Web Security, Web Design, Client/Server Programming, Java/C#/Python Programming, Software Engineering, Database Management Systems, Occupational Internship, Senior Project, Discrete Math, Visual Programming, Object-Oriented Programming, Software Design and Modeling, Data Science, Machine Learning, AI/ML, and Human Computer interaction (HCI).

EDUCATION

January 2011– December
2015

Doctorate Degree (PhD), Utah State University, Logan, Utah, USA

Computer Science, GPA: 3.94 (95.5 Excellent)

Dissertation Title: Improving Reuse of Distributed Transaction Software with Transaction-Aware Aspects

Mentor: Stephen Clyde (swc@mdsc.com)

August 2007–January 2010

Master Degree [M.Sc], Yarmouk University, Irbid, Jordan

Computer Information Systems. GPA: 88.2 (Excellent)

September 2003– January
2007

Bachelor Degree [B.Sc], Yarmouk University, Irbid, Jordan

Computer Information Systems, GPA: 86.2 (Excellent)

PROFESSIONAL EXPERIENCE

1 JANUARY 2023 – PRESENT

Assistant Professor, Information Technology, School of Computing, Southern Illinois University, Carbondale, Illinois, USA.

ITEC Program Coordinator

As an Assistant Professor of Information Technology at Southern Illinois University, my job duties involved a balance of research, teaching, and service responsibilities. I conduct research in my area of expertise, deliver courses to undergraduates, and engage with the university and broader community through service activities.

Research (30%):

- Conducting research in the field of IT and related areas, and developing and submitting research proposals to funding agencies.

Teaching (50%):

- Engaging with students through active learning methods and providing academic advising to students.
- Developing new course materials (In-person and online) and revising existing ones to keep up with the latest advances in the field.

Service (20%):

- Coordinating the Information Technology (ITEC) and Cybersecurity (CTEC) Program Programs.
- Preparing course schedule per Academic Year (AY)
- Serving on departmental, college, and university committees (e.g., assessment, accreditation, searching)
- Participating in outreach activities to engage with the community and promote the department's mission.

11 JULY– 31 AUGUST 2025

Expert consultant in course development

Designed two EQF/MQF Level-4 vocational courses for ICMPD's MCP Med TI in 2025— Migration and Artificial Intelligence and Statistical Analysis in a Migration Context—

producing the full package of syllabus and agenda, standardized lesson plans with practical exercises and handouts, a self-study methodology (core and supplementary reading lists), and assessment mechanisms including a final exam.

SEPT 2022- DECEMBER 2022

Associate Professor, College of Information Technology, Kingdom University, Bahrain.

As an academic professional, I was responsible for teaching an IT course and developing a curriculum study plan and course specifications for an IS master program that includes two tracks, namely cybersecurity and data analysis. I was also committed to engaging students in various IT-related activities, including organizing cybersecurity workshops in collaboration with the Department of Security in Bahrain. Additionally, as a representative of the university on formal occasions.

28 APRIL 2020 – SEPT 2022

Associate Professor, Information Systems Department, Yarmouk University, Jordan.

As an academic professional, I was responsible for various academic and administrative duties at the university. This includes delivering a requisite number of classes, providing guidance and supervision to graduate students, and actively participating in departmental meetings. I also provide academic support to professors and faculty members and assist with various departmental duties. Additionally, I am responsible for recruiting, training, and mentoring new teaching assistants and other junior staff, as well as conducting research and publishing papers in academic journals. In my role, I represent the university at conferences, delivering presentations as needed, and writing proposals to secure funding for research. I actively participate in faculty and departmental meetings, providing suggestions for improvement, and serving on various committees to continuously improve undergraduate and graduate-level curricula and training programs. With my extensive experience, I have supervised several M.Sc. projects and theses in various universities in Jordan, served on several university-level committees, and represented the department at faculty-level meetings. Additionally, I have experience as a technical team member of several international journals, further demonstrating my expertise in the field. Overall, I am committed to making significant contributions to the success of the university, and to continuously improving both academic and administrative processes to benefit the students and faculty.

31 JANUARY 2016 – 28 APRIL
2020

Assistant Professor, Information Systems Department, Yarmouk University, Jordan.

My job duties involved conducting research, delivering courses, and engaging with the university and broader community. In addition, contributing to the success of the department and university, and helping prepare the next generation of information technology professionals. This includes developing and submitting research proposals, preparing, and delivering lectures, grading assignments, providing academic advising to students, and participating in outreach activities.

30 SEPT 2019 – 12 OCT 2021

Director of the Refugees, Displaced Persons, and Forced Migration Studies Centre, Yarmouk University, Irbid Jordan.

As an experienced academic leader, I'm responsible for developing and fostering collaborations between academia and organizations to support refugees, displaced persons, and forced migrants. This involves using innovative research methods to provide cutting-edge solutions to meet the needs of these populations. Additionally, I leverage the expertise and resources of leading research institutions to deliver research and training programs for local and international organizations. My ultimate goal is to establish a comprehensive network of partnerships to support the needs of refugees, displaced persons, and forced migrants in Jordan, with a particular focus on higher education and career opportunities.

2021-2022	Data Science Consultant for ICMPD, Jordan Leading a local team of researchers from Jordan to work on the latest assessment needs of migrants in Jordan and developing custom solutions to support the implementation of the Mobility Partnership (MP) between the EU and the Hashemite Kingdom of Jordan. In addition, I'm responsible for leading and training government staff on the latest data analysis technologies to provide cutting-edge solutions to real-world challenges. Responsible for designing custom training programs for policymakers and technical staff in the areas of data analysis. The project is "Strengthening the Evidence Base for Migration Policies: A Central Migration Data Management Solution for Jordan (MIDAM)), funded by the Danish Ministry of Foreign, Affairs and implemented by the International Centre for Migration Policy Development (ICMPD).
JAN 2011- DEC 2015	Research Assistant & Teaching Assistant I worked closely with Dr. Clyde on research projects and assisted with ongoing teaching activities in the computer science department. As a research assistant with Dr. Stephen Clyde, my duties included: <ol style="list-style-type: none"> 1. Conducting research in the field of distributed transaction systems and assisting with ongoing research projects ECCS. 2. Attending research meetings and conferences with Dr. Clyde. 3. Providing general support to Dr. Clyde in his work and research activities. As a teaching assistant with the computer science department, your duties may include: <ol style="list-style-type: none"> 1. Providing support to students in the classroom and during office hours. 2. Grading assignments, quizzes, and exams. 3. Providing feedback to students on their work and assisting with academic advising. 4. Assisting with lab activities and providing technical support to students.
JAN 2010– DEC 2011	Full Time Lecturer, Computer Information Systems, Yarmouk University, Irbid, Jordan.
May 2007– Jan 2010	Full-Time Teacher, Ministry of Education, Elementary and Secondary School Bayt-Yafa for Children, Irbid, Jordan.
May 2006- 2007	Software .Net Developer, Aman Information Systems Company, Amman, Jordan.

PUBLISHED JOURNALS AND CONFERENCE PAPER

Selected Referred Published Journal Papers

- Md Faisal Kabir, Abhishek Mandar Mahakal, Yucheng Wang, **Anas AlSobeh**, Bilal Al-Ahmad, Rami Alkhawaldah (2025). "Proximity-Constrained Counterfactuals for Explainable Diabetic Risk Assessment", submitted to "Applied Computational Intelligence and Soft Computing", Wiley, Scopus Q1. (Accepted)
- Omar Darwish, Shorouq Al-Eidi, Abdallah Al-Shorman, Majdi Maabreh, **Anas AlSobeh**, Yahya Tashtoush, Plamen Zahariev, LinguTimeX: A Framework for Multilingual CTC Detection Using Explainable AI and Natural Language Processing. *CMC-Computers, Materials & Continua*, Q1, Accepted, 2025.
- Hassouna, Ahmed Alaa Abdelbaky, Mohamed Badr Ismail, Amany Shaban Hassan, Huthaifa Ashqar, **Anas MR AlSobeh**, Abdallah A. Hassan, and Mohammed Elhenawy. "Evaluating Deep Learning Change Detection in Aerial Imagery: A New Multi-Metric Benchmarking Framework." (2025). Submitted to: *International Journal of Aerospace Engineering*, Wiley, Scopus Q1. (Preprinted).

- Al-Ahmad, Bilal, **Anas AlSobeh**, Omar Meqdadi, and Nazimuddin Shaikh. "A Student-Centric Evaluation Survey to Explore the Impact of LLMs on UML Modeling." *Information* 16, no. 7 (2025): 565. Scopus Q2.
- Terawi, Nima, Huthaifa I. Ashqar, Omar Darwish, **Anas AlSobeh**, Plamen Zahariev, and Yahya Tashtoush. "Enhanced Detection of Intrusion Detection System in Cloud Networks Using Time-Aware and Deep Learning Techniques." *Computers* 14, no. 7 (2025): 282. Scopus Q1.
- Al-Shawakfa, E. M., **AlSobeh, A. M. R.**, Omari, S., & Shatnawi, A. (2025). RADAR#: An Ensemble Approach for Radicalization Detection in Arabic Social Media Using Hybrid Deep Learning and Transformer Models. *Information*, 16(7), 522. <https://doi.org/10.3390/info16070522>. Scopus Q2.
- Ahmed Al-Sharifin, Noor Bahr, Amani Shatnawi, **Anas M.R AlSobeh** (2025). The Effectiveness of a Psychosocial Support-Based Program in Raising Legal Empowerment among Refugees in Jordan, *فاعلية برنامج يستند إلى الدعم النفسي الاجتماعي في رفع مستوى التمكين القانوني لدى اللاجئين في الأردن*, Dirasat: Human and Social Sciences, University of Jordan, Vol. 52, No. 1 (2025): 18-31. **(In Arabic, Q3, Published, 2025)**
- **Anas AlSobeh**, Amani Shatnawi, Bilal Al-Ahmad, Alhan Aljmal, Samer Khamaiseh, (2024). I-Powered AOP: Enhancing Runtime Monitoring with Large Language Models and Statistical Learning. *International Journal of Advanced Computer Science and Applications (IJACSA)*. **(Scopus Q3 -SJH H-Index: 74, published, 2024)**.
- Alazzam, I., **AlSobeh, A. M. R.**, & Bani Melhem, B. (2024). Enhancing integration testing efficiency through AI-driven combined structural and textual class coupling metric. *Online Journal of Communication and Media Technologies*, 2024, 14(4), e202460 e-ISSN: 1986-3497. **(ISI, Q1, published, 2024)**.
- **AlSobeh, Anas MR**, Khalid Gaber, Mahmoud M. Hammad, Maryam Nuser, and Amani Shatnawi. "Android malware detection using time-aware machine learning approach." *Cluster Computing* (2024): 1-22. **(ISI, Q1, published, 2024)**.
- Alshattnawi, S.; Shatnawi, A.; **AlSobeh, A.M.R.**; Magableh, A.A. Beyond Word-Based Model Embeddings: Contextualized Representations for Enhanced Social Media Spam Detection. *Appl. Sci.* 2024, 14, 2254. <https://doi.org/10.3390/app14062254>. **(ISI, Q1, published, 2024)**.
- M. Alfreihat, O. Almousa, Y. Tashtoush, **A. AlSobeh**, K. Mansour and H. Migdady, "Emo-SL Framework: Emoji Sentiment Lexicon Using Text-Based Features and Machine Learning for Sentiment Analysis," in *IEEE Access*, doi: 10.1109/ACCESS.2024.3382836.
- Ahmad Radwan, Mohannad Amarneh, Hussam Alawneh, Huthaifa I. Ashqar, **Anas AlSobeh**, Aws Magableh. (2024). Predictive Analytics in Mental Health: Leveraging LLM Embeddings and Machine Learning Models for Social Media Analysis. *International Journal of Web Services Research (IJWSR)*. **(ISI, Q1, published, 2024)**.
- Ahmed Al-Sharifin, Mu'ayyad Megdadi, Amani Shatnawi, **Anas AlSobeh**, Aya Akkawi. (2024). The Effectiveness of a Training Program based on health education in improving Health Empowerment level among Refugees in Jordan. *Dirasat: Human and Social Sciences*. **(Q3, published, 2023)**
- **M. R. AlSobeh** and A. A. Magableh, (2023) "BlockASP: A Framework for AOP-Based Model Checking Blockchain System," in *IEEE Access*, vol. 11, pp. 115062-115075, 2023,

doi: 10.1109/ACCESS.2023.3325060.

- **AlSobeh, A. M. R.** (2023). OSM: Leveraging model checking for observing dynamic behaviors in aspect-oriented applications. *Online Journal of Communication and Media Technologies*, 13(4), e202355. <https://doi.org/10.30935/ojcm/13771>
- **AlSobeh, A. M. R.**, AlAzzam, I., Shatnawi, A. M. J., & Khasawneh, I. (2023). Cybersecurity awareness factors among adolescents in Jordan: Mediation effect of cyber scale and personal factors. *Online Journal of Communication and Media Technologies*, 13(2), e202312. <https://doi.org/10.30935/ojcm/12942>
- **AlSobeh, A. .**, & Aloudat , A. . (2022). The Repercussions of the COVID-19 Pandemic on Higher Education and its implications for Syrian Refugees Students (An Analytical Descriptive Study). *Dirasat: Human and Social Sciences*, 49(5), 150–166. <https://doi.org/10.35516/hum.v49i5.2770s>
- Shatnawi, A. M., **AlSobeh, A. M.**, AL-Mifleh, E. I., & Migdady, A. F. (2022). The Effectiveness of a Program Based on Psychosocial Support in Raising the Level of Family Empowerment among Refugees in Jordan. *International Journal of Psychological and Educational Research*, 1(4).
- AL-Refai, Nader S., Noor A. Albahr, Amna F. Migdady, Eman I. AL-Mifleh, Amani Shatnawi, and **Anas AlSobeh**. The Effectiveness of a Training Program Based on psychosocial support to Improve psychological empowerment Level among Refugees in Jordan. "فاعلية برنامج تدريبي مستند إلى الدعم النفسي الاجتماعي في رفع مستوى التمكين النفسي لدى اللاجئين." *International Journal of Psychological and Educational Research* 1, no. 2 (2022).
- Sawsan Alshattnawi, **Anas M.R. AlSobeh**. [2021]. A Cloud-Based IoT Smart Water Distribution Framework Utilizing BIP Component: Jordan As A Model. *International Journal of Cloud Computing*. Inderscience Enterprises Ltd. Scopus.
- **AlSobeh, A.** and Aloudat, A., 2022. The Repercussions of the COVID-19 Pandemic on Higher Education and its implications for Syrian Refugees Students (An Analytical Descriptive Study). *Dirasat: Human and Social Sciences*, 49(5), pp.150-166. DOI: <https://doi.org/10.35516/hum.v49i5.2770>. Scopus.
- Amin Jarrah, Abedalmuhdi Almomany, **Anas M.R. AlSobeh** and Eman Alqudah, [2021]. High-Performance Implementation of Wideband Coherent Signal-Subspace (CSS) based DOA Algorithm on FPGA. *Journal of Circuits, Systems, and Computers*. World Scientific Publishing Company. ISI.
- **AlSobeh, A. M.**, AlShattnawi, S., Jarrah, A., & Hammad, M. M. (2020). Weavesim: A Scalable and Reusable Cloud Simulation Framework Leveraging Aspect-Oriented Programming. *Jordanian Journal of Computers and Information Technology (JJCIT)*, 6(02). (ISI)
- Aws A. Magableh, **Anas M. R. AlSobeh**, Ahmad F. Klaib, (2019). An Evaluation of the Usage of Aspect Orientation and the Gap Between Academic Research and Industry Needs. *Journal of Theoretical and Applied Information Technology*. ID: 39546-JATIT Scopus. (Little Lion Scientific, Scopus).
- Sawsan Alshattnawi, Iyad Abu Doush, **Anas AlSobeh**, (2019). Online Mobile-Based Personal Tour Application Using Artificial Bee Colony Optimization Algorithm. *Journal of Theoretical and Applied Information Technology*. (Scopus).
- Malek M. Barhoush, Najib A. Kofahi, Khalid M.O. Nahar, **Anas M.R. AlSobeh**, Ameera Jaradat, Bayan Alomari, (2019). Performance Enhancement of the Advanced

Encryption Standard Via Pipelined Implementation. *Journal of Theoretical and Applied Information Technology*. 15th August 2019. Vol.97. No 15, pp. 4213-4226. (Scopus)

- **Anas M.R. AlSobeh**; Rafat Hammad; Abdel-Karim Al-Tamimi, (2019). A Modular Cloud-based Ontology Framework for Context-aware EHR Services. *International Journal of Computer Applications in Technology*, 2019 Vol.60 No.4, pp.339 – 350. DOI: 10.1504/IJCAT.2019.101181. (Inderscience, Scopus).
- **Anas M.R. AlSobeh**; Ahmad F. Klaib; Ahlam AlYahya, (2019). A National Framework for E-health Data Collection in Jordan with Current Practices. *International Journal of Computer Applications in Technology (IJCAT)*, 2019 Vol.59 No.1, pp.64 – 73. <https://doi.org/10.1504/IJCAT.2019.097118> (Inderscience, Scopus).
- **Anas M.R. AlSobeh**, Aws Abed Al Raheem Magableh, Emad M. AlSukhni, (2018). Runtime Reusable Weaving Model for Cloud Services Using Aspect-Oriented Programming: The Security-Related Aspect. *International Journal of Web Services Research*, Volume 15 Issue 1, January 2018, Pages 71-88, IGI Publishing Hershey, PA, USA. DOI: 10.4018/IJWSR.2018010104. (IGI-Global, Thomson Reuters-ISI, Impact: 0.667).
- **Anas M. R. AlSobeh**, and Aws A. Magableh, (2018). Architectural Aspect-Aware Design for IoT Applications: Conceptual Proposal. *International Journal of Computer Science & Information Technology (IJCSIT)* Vol 10, No 6, pp. 1-8, December 2018.
- Aws A. Magableh, and **Anas M. R. AlSobeh**, (2018). Securing Software Development Stages Using Aspect-Oriented Concepts. *International Journal of Software Engineering & Applications (IJSEA)*, Vol.9, No.6, pp. 57-71, November 2018. (Scientific Research Publishing, ISI)
- **Anas M. R. AlSobeh**, Stephen W. Clyde, (2016). TransJ: An Abstract Independent-Framework for Weaving Crosscutting Concern into Distributed Transactions. *Journal of Computer Technology and Application (计算机技术与应用: 英文版)*. Issue 4 Vol.7 April 2016, pages 173-195, doi: 10.17265/1934-7332/2016.04.001.
- Al-Kabi, M., Wahbeh, A., **AlSobeh, A.**, Aleroud, A., & Alsmadi, I. (2012). Examining web search trends across Arab countries. *Arabian Journal for Science and Engineering*, 37(6), 1585-1593. (Springer, Thomson Reuters (ISI), Scopus)
- **AlSobh, A.**, Al Oroud, A., Al-Kabi, M. N., & AlSmadi, I. (2010). A multilingual and location evaluation of search engines for websites and searched for keywords. *Brazilian Journal of Information Science: research trends*, 4(1).

Selected Conference Papers

- **Anas AlSobeh**, Raneem AlKurdi, 2025. “A Multi-Objective Optimization Approach for Sustainable AI-Driven Entrepreneurship in Resilient Economies”, 8th International Conference on Entrepreneurship for Sustainability & Impact ESI, 2025. (Accepted).
- **Anas AlSobeh**, Raneem AlKurdi, 2025. “ResiliAI: A Multi-Agent Reinforcement Learning Framework for AI-Driven Economic Shock Resilience and Adaptive Policy Simulation”. 8th International Conference on Entrepreneurship for Sustainability & Impact ESI, 2025. (Accepted).
- Bibek Koirala, **Anas AlSobeh**, Namariq Dhahir, Amer AbuGhazaleh, “Background-Aware Instance Segmentation for Early Detection of E. coli and Salmonella in Time-Stamped Microscopy Images”, 24th International Conference on Machine Learning and Applications (AMLA), (Accepted) Dec 3-4, 2025.
- **Anas AlSobeh**, Amer AbuGhazaleh, Namariq Dhahir, Malek Rababa, “XAIPath: Temporal-Environmental Explainable AI Framework for Co-Contaminated Food

Pathogen Detection in Microscopic Imaging”, ICPP Companion '25: 54th International Conference on Parallel Processing Companion, San Diego, CA, USA, 8-11 September 2025.

- Samer Khamaiseh, Steven Chiacchira, Abdullah Al-Alaj, **Anas AlSobeh**, “ImagePatriot: Distribution-Based Image Immunization Against Diffusion-Based Editing”, The 12th IEEE International Conference on Data Science and Advanced Analytics (DSAA), (Accepted 9-12 October 2025).
- Samer Kamiseh, Dierdre Jost, **Anas AlSobeh**, Honglu Jiang, “ADT++: Advanced Adversarial Distributional Training with Class-wise Robustness”, The 12th IEEE International Conference on Data Science and Advanced Analytics (DSAA), (Accepted 9-12 October 2025).
- S. Y. Khamaiseh, S. Chiacchira, **A. AlSobeh** and A. Aljadayah, "MuAE: A Mutation Testing Framework for Evaluating Autoencoders," 2025 IEEE 49th Annual Computers, Software, and Applications Conference (COMPSAC), Toronto, ON, Canada, 2025, pp. 1015-1020, doi: 10.1109/COMPSAC65507.2025.00131.
- **Anas AlSobeh**, Zahraddeen Gwarzo and Amani Shatnawi, (2025). “ShadowPlay: Engineering Defenses Against Role-Based Prompt Injection and Dependency Hallucination in LLM-Powered Development”. Cyber-AI2025 (The International Conference on Cybersecurity and AI-Based Systems). September 2025. (Accepted).
- **Anas AlSobeh**, Mustafa Rob, Kamel Rouibah, Amani Shatnawi. "Proactive Detection of Tax Fraud Using Explainable AI Techniques: A Hybrid Approach ", 65th IACIS Annual Conference | October 1 - October 4, 2025, Sheraton Sand Key Clearwater Beach, Florida. (Accepted, will be published in IIS Journal)
- A. Shatnawi, **A. AlSobeh**, I. Alsmadi and B. Al-Ahmad, "Tailored Large Language Models for Spam Detection: From Model Customization to Benchmarking Effectiveness," 2025 5th Intelligent Cybersecurity Conference (ICSC), Tampa, FL, USA, 2025, pp. 264-271, doi: 10.1109/ICSC65596.2025.11140025.
- L. Patel and **A. AlSobeh**, "SlangLLM: Dynamic Detection and Contextual Filtering of Slang in NLP Applications," 2025 1st International Conference on Secure IoT, Assured and Trusted Computing (SATC), Dayton, OH, USA, 2025, pp. 1-6, doi: 10.1109/SATC65530.2025.11137237.
- Frisbier, Gayle L., Omar Darwish, **Anas AlSobeh**, and Abdallah Al-shorman. "Identifying the Origins of Business Data Breaches Through CTC Detection." In International Conference on Network and System Security, *Network and System Security*, Springer, pp. 387-406. 2024.
- **Anas AlSobeh**, Alan Franklin, Belle Woodward, (2024). **(Best Paper Award)** “Unmasking Media Illusion: Analytical Survey of Deepfake Video Detection and Emotional Insights.” The 64th IACIS Annual Conference - October 2 - 5, 2024, at One Ocean Resort and Spa, Atlantic Beach, Florida. (Oct 2024, IIS Journal, Best Paper Award)
- F. A. Hasan, H. I. Ashqar, **A. AlSobeh** and O. Darwish, "Blockchain-Based National Digital Identity Framework – Case of Palestine," 2024 International Conference on Intelligent Computing, Communication, Networking and Services (ICCNS), Dubrovnik, Croatia, 2024, pp. 76-83, doi: 10.1109/ICCNS62192.2024.10776538.
- A. Harasees, B. Al-Ahmad, **A. AlSobeh** and A. Abuhussein, "A Secure IoT Framework for Remote Health Monitoring Using Fog Computing," 2024 International Conference on Intelligent Computing, Communication, Networking and Services (ICCNS), Dubrovnik, Croatia, 2024, pp. 17-24, doi: 10.1109/ICCNS62192.2024.10776425.

- Abanoub Kased, Rana Rabee, Akram Fahmy, Hussein Mohamed, Marco Yacoub, Mohammed Elhenawy, Huthaifa I. Ashqar, **Anas AlSobeh**, Mahmoud Masoud, Abdallah A. Hassan, "Vehicle Trajectory-Based Intersection Classification Using Deep Transfer Learning," *2024 International Conference on Intelligent Computing, Communication, Networking and Services (ICCNS)*, Dubrovnik, Croatia, 2024, pp. 158-165, doi: 10.1109/ICCNS62192.2024.10776444.
- Darwish, O., Al-Shorman, **A.**, **AlSobeh**, A., Tashtoush, Y. (2024). A Survey Analysis of Internet of Things (IoT) Education Across the Top 25 Universities in the United States. In: Barolli, L. (eds) *Advanced Information Networking and Applications. AINA 2024. Lecture Notes on Data Engineering and Communications Technologies*, vol 203. Springer, Cham. https://doi.org/10.1007/978-3-031-57931-8_47
- **Anas AlSobeh**, Belle Woodward, AI as a Partner in Learning: A Novel Student-in-the-Loop Framework for Enhanced Student Engagement and Outcomes in Higher Education, SIGITE '23, October 11–14, 2023, Marietta, GA, USA, ACM ISBN 979-8-4007-0130-6/23/10. DOI: <https://doi.org/10.1145/3585059.3611405>.
- **Anas AlSobeh**, Amani Shatnawi, Integrating Data-Driven Security, Model Checking, and Self-Adaptation for IoT Systems using BIP Components: A Conceptual Proposal Model. *International Conference on Advances in Computing Research (ACR'23)*, May 8-10, 2023, Orlando, Florida, USA. Springer Book Series: *Lecture Notes in Networks and Systems (LNNS)*. (Scopus, 2023)
- Barhoush, M. M., **AlSobeh, A. M.**, & Al Rawashdeh, A. (2019, April). A Survey on Parallel Join Algorithms Using MapReduce on Hadoop. In *2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT)*. IEEE. (IEEE conference). (pp. 381-388) Amman, Jordan, April 2019. DOI: 10.1109/JEEIT.2019.8717427.
- **Anas M. R. AlSobeh**, Aws A. Magableh, (2018). An Aspect-Oriented with BIP Components for Better Crosscutting Concerns Modernization In IoT Applications. *5th International Conference on Computer Science and Engineering (CSEN-2018)* Nov 25 ~ 26, 2018, Dubai, UAE, pp 21-31 At: Dubai DOI: 10.5121/csit.2018.81203. ISBN: 978-1-921987-90-8.
- Aws A. Magableh, **Anas M. R. AlSobeh**, (2018). Aspect-Oriented Software Security Development Life Cycle (AOSSDLC). *5th International Conference on Computer Science and Engineering (CSEN-2018)* , Nov 25 ~ 26, 2018, Dubai, UAE, pp33-47 At: Dubai DOI: 10.5121/csit.2018.81204. ISBN: 978-1-921987-90-8.
- **Anas M. R. AlSobeh**, Stephen W. Clyde, (2016). Transaction-Aware Aspects with TransJ: Initial Experiment Show Promising Improvements in Reusability of Distributed Transactions. *The Eleventh International Conference on Software Engineering Advances (ICSEA 2016)*. pp.59. Italy, Rome, July 2016. (Conference, International Academy, Research, and Industry Association (IARIA))
- **Anas M. R. AlSobeh**, Stephen W. Clyde, Unified Conceptual Model for Joinpoints in Distributed Transactions, (2014). *The Ninth International Conference on Software Engineering Advances, ICSEA'14*. Vol. 14, pp. 8-15. France, Nice, October 2014. ISBN: 978-1-61208-367-4. (Conference, International Academy, Research, and Industry Association (IARIA))
- Submitted (Under review)** • **Anas AlSobeh**, Malek Rababah, Namriq Dhar, Amer Abu Gazaleh, 2025. From Pixels to Policy: RDM Strategies for AI-Driven Bacterial Detection in Food Safety Research.

Research Data Management (BRICCs-RDM) Conference, the Westin Alexandria Old Town, 400 Courthouse Square, Alexandria, VA 22314. July 9-11, 2025. (On press).

- On going research Projects**
- Sawsan AlShattnawi, **Anas Alsobeh**, Transparency and Efficiency in Cloud Forensics: A Novel DF-CFI Approach Using Explainable AI. To be Submitted: JCIS. Scopus Q1.
 - Dylan Middendorf, Jack Dziubinski, **Anas Alsobeh**, Samer Khamaiseh. "The Art of Attribution: A Formal Proposal for the Systematic Curation of a Code Authorship Dataset".
 - **Anas M.R. Alsobeh**, AbdelRahman Alasmar, (2024). A Hybrid Reasoning Framework to Identify Cross-Cutting Concerns Using Aspect-Oriented Techniques.
 - Samer, Khamaiseh, Aibak AL-Jadayah, Steven Chiracchira, **Anas Alsobeh**. "Vanguard: Post Generation Filter for Safe Text-2-Image Diffusion Models Contents".

FUNDED RESEARCH/ PROJECTS

Principal Investigator (PI)

- [2024 – 2026] ▪ Program: Capacity Building Grants for Non-Land Grant Colleges of Agriculture, USDA Proposal Number: 2024-02854
Proposal Title: "Enhancing Food Safety: Rapid Detection of Salmonella in Onions Using Microscopic Imaging and Artificial Intelligence" (\$150,000.00)
- [2019 – 2023] ▪ Reshaping Attention and Inclusion Strategies for Distinctively Vulnerable People Among the forcibly displaced [RAISD]. *European Union, Horizon 2020 (H-2020)*. Budget: € 2,662,128.00 Euro.
- [2019 - 2021] ▪ Psychosocial Support and Trauma work in Jordan/Certified Advanced Training on Community-Based Psychosocial Support in the Context of Forced Migration. *Deutsche Gesellschaft for Internationale Zusam-menarbeit (GIZ) GmbH*. Budget: €121,676.94 Euro.
- [2018 - 2020] ▪ Toward Innovative Design an Interactive, Secure, Learning and Research YU Cloud Environment [YUCloud]. *Deanship of Scientific Research and Graduate Studies, Yarmouk University*. Budget: 43,140.00 JD, approximately \$ 60,846.00 USD.
- [2018 - 2019] ▪ Design of Smart Water Distribution System Based on Cloud Computing and Internet of Things [SWDS]. *Deanship of Scientific Research and Graduate Studies, Yarmouk University*. Budget: 2,000.00 JD, approximately \$ 2,820.00 USD.
- [2017 - 2019] ▪ Providing Fundamental ICT Skills for Syrian Refugees [PFISR]. *European Union, HOPES-MADAD*. Budget: € 53,375 Euro.
- [2017 - 2019] ▪ Transferring E-Commerce Fundamentals for Syrian Refugees [TEFSR]. *European Union, HOPES-MADAD*. Budget: € 39,250.000 Euro

Co-Principal Investigator (Co-PI)

- 2021 - 2022 ▪ PIANO: Pharmaceutical initiative for the medicinal plants of the Middle East in research and teaching (Pharmazeutische Initiative für die Arzneipflanzen des Nahen Ostens in Forschung und Lehre), DAAD: *Deutscher Akademischer Austauschdienst German*

- Academic Exchange Service, Budget: € 198,780.00 Euro.*
- 2021 – 2022 ▪ JUICEE – Developing Jordanian Universities' Innovation Capacities and Entrepreneurship Education, DAAD: *Deutscher Akademischer Austauschdienst German Academic Exchange Service*, Budget: € 225,150.00 Euro.
 - Oct. 2020 –Oct 2022 ▪ Learning & development for a Sustainable future for refugees & host communities to promote co-existence and Socio-Economic Development (LSFR), *Orange Knowledge Programme. Tailor-Made Training / Tailor-Made Training Plus*, Nuffic. Budget: € 531,778.
 - 2019 – 2022 ▪ Neurodevelopmental CARE for Refugees [NeuCARE]. *European Union, Erasmus+ programme, Capacity Building in higher education - Joint Projects*. Budget: € 668,750.00 Euro.

Pending Research Projects

- AlSobeh, Anas (PI), James D. Sissom (Co-PI), and Dennis Mares (Co-PI). "AI Vigilance: Deciphering the Surveillance Apparatus and its Societal Implications for Ethics, Privacy, and Racial Justice." Southern Illinois University Carbondale, 9 Oct. 2023. Proposal to National Endowment for the Humanities. Amount Requested: \$149,957. 2024 – Submitted September 2024.
- Dennis Mares (PI), Kristine Hildebrandt (Co-PI), Alicia L. Alexander, Jessica Despain (Co-PI), James D. Sissom (Co-PI), Anas AlSobeh(Co-PI), Margaret Smith (Co-PI), Andrew H. Buettner, Pinckney Benedict (Co-PI), Weinberg, Jerry B., Bhattacharya (co-PI) and Tobias Merriman (Co-PI). "Developing and Implementing AI-Enhanced Virtual Reality Training: A Multi-Disciplinary Approach." Southern Illinois University Edwardsville, 11 Dec. 2023. Grant application to the Department of Justice, Bureau of Justice Assistant. Federal Estimated Funding: \$4,000,000.

THESIS/DISSERTATION/PROJECT SUPERVISION

Theses/ Dissertations

- Malek AlRababah, PhD Computer Science. Supervisor, Dissertation: "*Rapid Detection of Objects Using Artificial Intelligence*".
- Khalid Hamdan Jaber, MS of Computer Information Systems, Co- Supervisor, *Thesis Title: Context-Aware Android malware detection Model using machine learning techniques*.
- Sahar AlOmari, MS of Computer Information Systems, Co-Supervisor, Thesis Title: *Social Media Text Radicalization Detection Based on Deep Learning Techniques in Arabic language*.
- Abeer Algazo, MS Student at Yarmouk University, Main Advisor. Thesis title: *A secure EHR Framework based on Microservices and Blockchain Technologies utilizing the Fluree Data Platform*.
- Alhan Jamil, MS Student at Yarmouk University, Main Advisor. Thesis title: *Towards Practical Runtime Monitoring Approach for Aspect-Oriented Programs Using Model Checking*.
- Abdel Rahman Alasmar, MS Student at Yarmouk University, Main Advisor. Thesis title: *A Hybrid Reasoning Framework to Identifying Cross-Cutting Concerns Using Aspect-Oriented Techniques*.

POST DOCTORATE/GRADUATE COMMITTEES AND

- Examiner to PhD. Thesis- GameAbove College of Engineering & Technology, Eastern Michigan University (Gayle L. Frisbie): "Identifying the Origins of Business Data Breaches

SUPERVISION

through CTC Detection”, 2024

- Examiner to PhD. Thesis- Department of Mathematics at SIUC (Abdulaziz A. Alshammari): “Testing with the one component partial least squares and the marginal maximum likelihood estimators”, 2024.
- Invitation Letter Fulbright Program: “Dr. Muhammad Qasim to join SIUC as a Postdoctoral Researcher in the School of Computing and contributing to our ongoing research on “AI-based techniques for Predicting Student Success using Constructive Engagement Analytics”. 2024.

Extracurricular experience

Supervised Student Projects

2025

- Research Poster (2025), Student Research Mentorship Currently supervising the CyberPEACE: Advancing Equitable Privacy and Security Education through Edge Innovation and Zero Trust Technology, Students: Kromwell, Ahyon, Denmark, Sarah and Sirgiovanni, Louie.
- Workshop “Media Literacy and Deepfake Detection: Enhancing Cognitive Skills through Adaptive Educational Interventions”. **WiCyS 2025.**

2024

- Siegelman, Joseph L, “CyberGuardian: A Gamified Approach to Cybersecurity Education with AI-Assisted Learning”. Undergraduate research work. Susan C. Thrasher Research Fund.

2020-2023

- Iman Yousef Khasawneh, MS Student at Yarmouk University, Mian Supervisor, Project Title: *Social Engineering and Cybersecurity Awareness: Jordanian Teens as Model.*
- Ahlam Al-Yahya, MS Student at Yarmouk University, Main Supervisor. Project title: *Cancer and Diabetes Data Analysis in Jordan using a Clustering Algorithm.*
- Shorooq B. Alazzam, MS Student at Yarmouk University, Main Supervisor. Project title: *Preventing SQL Injection and XSS Attacks using Machine Learning.*
- iTeach: Mobile-based Application for Teachers, 2021.
- Etrevago: Web-based Auction Systems, 2021.
- EVS: Online election system, 2019.
- Yarmouk Online Academy, Web Application, First Semester 2019.
- Smart Traffic System, IoT-based Management System, First semester 2018
- E-Election Student Application, Web-based Application, First Semester 2018
- Ezra Bethra, Charity Web Application System, Second Semester 2017
- Mr. Dentist, Scheduling System, Mobile Application, Second Semester 2017
- Automatic Barriers System, IoT Application, Second Semester 2017

Other academic services

2025

Chair Special Session: “AI-Driven Threat Analysis for IoT Software Security”, 1st IEEE Conference on Secure and Trustworthy Cyber-Infrastructure for IoT and Microelectronics (SaTC 2025), <https://satccconf.com/index.html>, and <https://satccconf.com/ss.html>.

Journal, Book, Conference Referees

- ICMLSC 2025 (9th International Conference on Machine Learning and Soft Computing, Tokyo, Japan). Role: Technical Program Committee Member.
 - CMVIT 2025 (9th International Conference on Machine Vision and Information Technology, Maldives). Role: Technical Committee Member.
 - CCEAI 2025 (9th International Conference on Control Engineering and Artificial Intelligence, Ho Chi Minh City, Vietnam). Role: Technical Committee Member.
 - AAIEE 2025 (IEEE International Symposium on the Application of Artificial Intelligence in Electrical Engineering, Beijing, China). Role: Technical Committee Member.
 - ICSED 2025 (7th International Conference on Software Engineering and Development, Bangkok, Thailand). Role: Technical Committee Member.
 - **WiCyS (Women in Cybersecurity 2025)**: Role: Volunteer Reviewer for Research Poster Submissions, Dallas, USA.
- 2024
- **TV Interview, KFVS12**: SIU researchers studying how AI can prevent food poisoning <https://www.kfvs12.com/2024/10/30/siu-researchers-studying-how-ai-can-prevent-food-poisoning/> and <https://news.siu.edu/2024/10/102924-siu-researcher-gets-150k-to-use-ai-to-prevent-food-poisoning.php>
 - **NSF Panelists.**
 - **STEM Trainer in AI (LLM)**, SRELO Research Program, Illinois Mathematics and Science Academy: IMSA. Summer Training program, June 17-June 28, 2024.
 - **(Press) Survey**: Large numbers of students using AI without professors' knowledge, 2024. (Link) Daily Egyptian, Southern Illinois University Carbondale, March 2024.
 - **Guest Editor**, Special Issue on Cybersecurity and Secure Information Systems: Challenges and Solutions in the Digital Environment- Journal Systems, MDPI. Indexed in Scopus and ISI, with an impact factor of 1.9. https://www.mdpi.com/journal/systems/special_issues/421CBLW879
 - **Chair**, The 38-th International Conference on Advanced Information Networking and Applications (AINA-2024) - Workshop-DIAC-2024: The 2nd Workshop on Diversified IoT Applications of Cybersecurity (DIAC-2024). 8-16/4/2024
 - **Chair**, The Third Workshop on Advanced Cybersecurity Applications in IoT and Beyond (ACAIoT2024), 24-27 Sept. 2024 | Dubrovnik, Croatia. In Conjunction With The International Conference on Intelligent Computing, Communication, Networking and Services (ICCNS2024)

Journal and Book Referee

- International Journal of web services research: 1 review.
- Applied Sciences: 3 reviews.
- Computers: 12 reviews.
- Electronics: 20 reviews.
- Future Internet: 11 reviews.
- IEEE Access: 15 reviews.
- Environmental Modelling & Software: 1 review.
- Sensors: 1 review.
- Journal of Cybersecurity and Privacy: 1 review.
- Mathematics: 1 review.
- Sustainability: 1 review.
- Technologies: 1 review.

- Online Journal of Communication and Media Technologies: 3 reviews.
- JCIS (Journal of Computer Information Systems) Editorial Board, Role: Editorial Board Member, Responsibility: Overseeing submissions, reviews, and journal quality.

Conference Referees

- SIGITE (Special Interest Group for Information Technology Education): Role: Author and Reviewer, USA.
- AINA (Advanced Information Networking and Applications): Role: Reviewer, Switzerland.
- IACIS (International Association for Computer Information Systems): Role: Reviewer and Presenter, USA.
- ITCC (International Conference on Information Technology and Computer Communications): Role: Technical Program Committee Member, Yokohama, Japan.
- ACDP Conference (Asia Conference on Data Processing, Role: Technical Committee Member, Thailand).
- CACEE Conference (Conference on Advances in Communication and Electrical Engineering, Role: Reviewer, India).
- CACML Conference (Conference on Artificial Computing and Machine Learning, Role: Presenter, Germany).
- CCRIS Conference (Conference on Cybersecurity Risk and Information Systems, Role: Technical Committee Member, UK).
- CSITE Conference (Conference on Software Innovations in Technology and Education, Role: Technical Chair, USA).
- DiGes Conference (Digital Gesture Studies, Role: Panelist, France).
- HEREM Conference (High-End Research in Emerging Media, Role: Reviewer, UAE).
- IACIS Conference (International Association for Computer Information Systems, Role: Best Paper Presenter, USA).
- ICCE Conference (International Conference on Cloud and Edge, Role: Speaker, Japan).
- IJEER Conference (International Joint Efforts on Emerging Research, Role: Technical Member, Italy).
- PRIS Conference (Privacy Risks in Systems, Role: Keynote Speaker, Spain).

Editorial Boards

- **Editorial Board Member.** JCIS (Journal of Computer Information Systems), Scopus. Q1, Taylor & Francis.
 - **Guest Editor for a Special Issue** on Cybersecurity and Secure Information Systems. MDPI-Systems. Scopus, Q3.
- 2022-2023
- **Chair Session** Education and AI, SIGITE '23, October 11–14, 2023, Marietta, GA, USA, Oct 11-14 2023.
 - **Chair Session** of Cybersecurity and Networking and Communication, The 2023 International Conference on Advances in Computing Research (ARC'23), Orlando, USA, May 8-10, 2023.

Journal, Book, Conference Referees

- **Selected Peer review** Applied sciences. (3), Future internet. (2), IEEE access: (3), International journal of environmental research and public health. (1), International journal of grid and high-performance computing. (1), International journal of web

services research. (6), Journal of software. (5), Mathematics. (1), Sensors. (1), SN Applied Sciences (1), Sustainability. (4), The journal of supercomputing. (1), Vehicles. (1). International Conference on Communication and Information technology-2023 (AICCIT). 5th International Conference on Advances in Computer Technology, Information Science and Communications. International Conference on Services Computing (CSC), 1st International Conference on Computing, Multimedia, and Information Technology (ICOMMIT), Journal of Software: Evolution and Process (Elsevier), Asia Conference on Mathematics, Data Science and Information System (MDSIS 2023), Online Journal of Communication and Media Technologies (OJCMT), International Conference on Computer Science and Software Engineering (CSSE), Eurasian Conference on Natural Language Processing and Information Retrieval (ECNLPIR), 9th International Conference of Advances in Materials Science and Engineering (MAT).

- 2021-2022
 - **Reviewer** "IET Computers & Digital Techniques", Scopus.
 - **Member of Postgraduate Studies Committee**, Faculty of Information Technology and Computer Science
 - **Chair** of Conference for Migration and Refuge in the Arab Region: Reality-Challenges-Solutions
 - **Committee Member of 4th ICOIACT 2021**, 4th International Conference on Information and Communication Technology, Indonesia, August 30, 2021, by Universitas Amikom Yogyakarta.
 - **Guest Speaker**, International Conference on “Smart Sustainable Material and Technologies” during July 23-24, 2021, in Berlin, Germany, online.
- 2020
 - **Technical Committee Member** of "Blockchain Technology in Cloud Computing Challenges and Open Issues" Conference. IWCMC 2020.
 - **Advisory Board** for the Project and International Relations
 - **Chair of Conference Protracted Displacement Conference: Hopes, Perspectives and Solutions? Governance – Social Dimension – Academia**
- 2019
 - **Technical Committee Member of ACAI 2019 and 2020**, International Conference on Algorithms, Computing and Artificial Intelligence. Sanya, China during December 24-26.
 - **Sustainability Development Committee**, Development of Technical and Financial Solutions at Yarmouk University, Member.
- 2017-2019
 - **Advisory Board of Academic Entrepreneurship Center of Excellence**, Yarmouk University, Member.
- 2017- 2019
 - Oracle Academy Committee, Faculty of Information Technology and Computer Science, *Chair*.
- 2016- 2017
 - **Advisory Board**, Refugees, Displaced Persons, and Forced Migration Studies Center, *Member*.
- 2014
 - **Organizing Committee**, SIGMOD'14 Conference. Member.
- 2017 – Present
 - **Academic Reviewer**, Several Conferences and Journal (Scopus and ISI), *Reviewer*.
- 20/8/2019 - Present
 - **International Association of Scientific Researcher** A scientific endowment of public benefit, *Member*.

TAUGHT COURSES

▪ Bachelor Information Systems

- CIS 101: Computer Skills
- IT 102: Introduction to Computing Applications
- CIS 102: Technology and Societies
- CIS 214: Visual Programming (C#)
- CIS 227: Human Computer Interaction
- ITEC 280: Discrete Math for IT
- CIS 260: Database Management Systems
- CIS 311: Internet Applications
- ITEC 312: Programming II- Python
- CIS 341: Website Design
- CIS 382: Cloud Computing
- ITEC 409: Java Programming
- CIS 411: Client/Server Programming
- JRN 442: News Website Development
- CIS 499: Graduation Project (BSc)
- ITEC 410: Web Security
- ITEC 419: Occupational Internship

▪ Graduate Courses

- CIS 642: Software Design and Modelling
- CIS 683: Web Technology
- CIS 699: Graduation Project (MSc)

▪ Workshops/Trainings

- E-Psychology Support Applications
- Entrepreneurship
- Digital Transformation
- E-commerce
- HPC
- ML/AI

PROFESSIONAL SERVICES/ DEVELOPMENT / TRAINING / WORKSHOPS

2025

- PACES Research Training Workshop (Albuquerque, 2025) — completed advanced CI/HPC training.
- ACES HPC platform — Active user (2025–), Running AI/ML workflows for microscopy and cybersecurity projects (e.g., model training/evaluation, containerized pipelines, CI/CD to HPC).
- ACCESS Campus Champions (SIU Carbondale) — Institutional liaison (2025–) Onboarding researchers to national CI/HPC resources; training and outreach.
- Texas A&M, BRICC Research Data Management Conference, July 9–11, 2025 – Presentation
- FABRIC KNIT10 & KNIT11, Oct 14, 2025 — Travel Stipend Registration confirmed.
- **Campus Champion, ACCESS Campus Champions Program** – SIU Carbondale (Appointed 2025–), Institutional liaison for national cyberinfrastructure; support and onboarding for SIU researchers; training/outreach responsibilities.
- **Training: Building Transformer-Based Natural Language Processing (NLP) Applications**, NVIDIA
- **CI Pathways Training Program – Machine Learning & AI Track**
NSF Award #2417789 | PSC & NCSA, Summer 2025
Completed a competitive, cohort-based training program focused on applying

cyberinfrastructure tools to Machine Learning and AI workflows. Engaged in guided sessions on cutting-edge CI frameworks, hands-on assignments, and collaborative learning, under expert mentorship.

PROFESSIONAL MEMBERSHIPS

- Campus Champion, ACCESS Campus Champions Program (2025- present)
- ACM SIGHPC Member (2025–2026)
- Women in Cybersecurity (WiCyS) member (2024-present)
- IEEE Senior Member, IEEE Membership (2023-present)

HIGHLIGHTS, HONORS, CERTIFICATIONS AND AWARDS

- 2025

- NSF CCMNet Travel Award — PEARC25 (July 2025), Participation included CCMNet workshop and mentoring commitments
 - REACH Faculty Mentor – Research Enriched Academic Challenge Award Southern Illinois University, Office of the Vice Chancellor for Research Project: Benchmarking Integrated Detection of LLM-Generated Deepfakes Across Modalities on Social Media (Award Period: 2025–2026). Project received \$2000 in research funding and UGA student support stipend.
 - ACM-SIGHPC (Special Interest Group on High Performance Computing) Member
 - **Certificate:** Building Transformer-Based Natural Language Processing (NLP) Applications Issued by NVIDIA, May 9, 2025
Certification ID: btma_Dy6SHWe331LF_w71w
Verified at: learn.nvidia.com/certificates?id=btma_Dy6SHWe331LF_w71w
 - SecureAI – Certificate (2025), Loyola University Chicago.
 - WiCyS Scholarship (\$500) for Conference, 2025.
 - KNIT10-2025, Award \$1,106.00.
- 2024

- Best Paper Award: IACIS 2024.
 - Certificate Appreciation: Research Mentor during STEM Research Academy hosted by SIU STEM Education Research Centre.
- 2022- 2023

- Data Science and Machine Learning: Making Data-Driven, Decisions program by MIT Institute for Data, Systems, and Society (IDSS).
 - AWS Cloud Partitioner Certificate. Amazon Web Services.
 - Institutional/Signatory Official: Human Subject Research, CITI program.
- 2017

- Oracle Academy Certificate, Training of Trainees (ToT).
- 2015

- Member of USU Honoured Graduate Students.
- 2014

- Research and Projects Grant Proposal Award, Utah State University, USA.
 - Full Tuition Award, Utah State University.
- 2011-2015

- PhD Scholarship, Yarmouk University, Jordan.
- 2011- 2014

- First Rank Student Award, Yarmouk University, Jordan.

REFERENCES

- Dr. Aws A. Magableh, Associate Professor, Software Engineering Department, College of Computer & Information Sciences, Prince Sultan University P.O. Box 66833, Riyadh 11586 , Kingdom of Saudi Arabia. amagable@psu.edu.sa , +962 777272924.
- Amani Shatnawi, PhD, Assistant Professor, School of Computing, Weber State University, Ogden, Utah, USA. Tel: +1(618) 331-2222, amanishatnawi1@weber.edu.
- Izzat Alsmadi, Professor, Computational, Engineering and Mathematical Sciences, Texas A&M, San Antonio, Phone: 210-784-2313, ialsmadi@tamu.edu,
- Stephen Clyde, Associate Professor of Computer Science, Utah State University, Logan, Utah, USA. Email: swc@mdsc.com. 435-764-1569.
- Omar Darwish, PhD, Assistant Professor, Eastern Michigan University, +1(269) 254-4979, odarwish@emich.edu.
- Rafat Hammad, PhD, Information Systems, Associate Professor, Yarmouk University, Irbid, Jordan. Tel: 00962 790662129, rafat.hammad@yu.edu.jo
- Sawsan Khaleel Alshattnawi, Professor, Computer Science Department sawsan_kh@yu.edu.jo, sawsan.alshattnawi@gmail.com, Mobile: +962779905012.
- Samer Y. Khamaiseh, Assistant Professor, Director of the Laboratory of AI Security Research (LAIiSR), Department of Computer Science & Software Engineering, Miami University, 205 Benton Hall, 510 E. High St., Oxford, OH 45056, Phone: 513-529-0340. khamaisy@miamioh.edu
- Abdel Nasser Hindawi, PhD, Program Coordinator DAAD JORDAN / Manager of the Master Program in the EDU-SYRIA III Project, DAAD Jordan. 2nd Investment Building - 4th Floor, Ahmed Al-Tarawneh Street, Jubeyha, Amman - Jordan, Mobile: 00962 795 620 679, Email: hindawi@daad.de, nasserhindawi@gmail.com. Website: www.daad-jordan.org, www.daad.de.