Suliman Thwib

Researcher, Al-Quds University
Department of Computer Science

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Education

2025-07 **Master of Science** (MSc)
Al-Quds University - Abu Dis
Computer Science (CPS); Cumulative AVG: **89.6%; Research** Track (thesis)

2022-02 **Bachelor of Engineering** (BEng)
Al-Quds University - Abu Dis
Electronics & Communications; Cumulative AVG: **89%**

Work History

2025-08 – Current * **Lecturer**
Faculty of Science and Technology, Al-Quds University

- Taught and developed university courses in research methods, statistical analysis, and medical image analysis, while co-supervising master's theses on AI-driven medical imaging applications for disease diagnosis and monitoring.

2022-05 – Current * **Research Team Leader**
Al-Quds Business Center for Innovation, Technology, and Entrepreneurship (BCITE), Al-Quds University

- Led an AI research lab at Al-Quds University developing deep learning and multimodal healthcare solutions, securing funding, publishing high-impact papers, and overseeing end-to-end research, model development, infrastructure, and multidisciplinary project coordination.

2023-02 – 2025-08 **IT Specialist**
Al-Quds Business Center for Innovation, Technology, and Entrepreneurship (BCITE), Al-Quds University

2021-08 – 2022-05 **Teaching & Research Assistant**
Faculty of Engineering, Al-Quds University

2020-12 – 2021-02 **Data Analyst**
Palestine Telecommunications Company (Paltel)

Skills

- Machine Learning
- Computer Vision
- Signal Processing
- Data Analysis
- Robotics Programming
- Modeling & Simulation
- Parallel Computing
- Technical Consulting
- Security & Governance

Top Publications:

- Thwib, S., Qasrawi, R., Issa, G., AbuGhoush, R., AlMasri, H., & Qawasmi, M. (2026). Advancing Breast Cancer Lesion Analysis in Real-Time Sonography Through Multi-Layer Transfer Learning and Adaptive Tracking. *Machine Learning and Knowledge Extraction*, *8*(3), 82. https://doi.org/10.3390/make8030082
- Thwib, S., Qasrawi, R., Issa, G., Amro, M., Abu Ghoush, R., Saghir, S., Mujahed, D., Nemer, M., Halaika, M., Badrasawi, M., Al-Jawaldeh, A., Elmadfa, I., Nasreddine, L., Abu Al-Halawa, D., & Nimer, M. (2025). Determinants of Child Growth in Palestine (Ages 5–17): A SEM Approach to Food Insecurity, Nutrition, and Socioeconomic Factors. *Children*, *12*(6), 703. https://doi.org/10.3390/children12060703
- Qasrawi, R., Thwib, S., Issa, G., Qdaih, I., Abu Ghoush, R., & Arjah, H. (2025). Optimized Hounsfield Units Transformation for Explainable Temporal Stage-Specific Ischemic Stroke Classification in CT Imaging. *Journal of Imaging*, *11*(12), 423. https://doi.org/10.3390/jimaging11120423
- Qasrawi, R., Thwib, S., Issa, G., Abu Ghoush, R., & Amro, M. (2025). Type 2 Diabetes Risk Prediction Using Glycemic Control Metrics: A Machine Learning Approach. *Human Nutrition & Metabolism*, *42*, 200341. https://doi.org/10.1016/j.hnm.2025.200341
- Qasrawi, R., Daraghmeh, O., Thwib, S., Qdaih, I., Issa, G., Vicuna Polo, S., Owienah, H., Abu Al-Halawa, D., & Atari, S. (2025). Advancing Breast Cancer Detection in Ultrasound Images Using a Novel Hybrid Ensemble Deep Learning Model. *Intelligence-Based Medicine*, *11*, 100222. https://doi.org/10.1016/j.ibmed.2025.100222
- Qasrawi, R., Issa, G., Thwib, S., AbuGhoush, R., Amro, M., Ayyad, R., Vicuna, S., Badran, E., Khader, Y., Al Qutob, R., Al Bakri, F., Trigui, H., Sokhn, E., Musa, E., & Kong, J. D. (2025). The Role of Machine Learning in Infectious Disease Early Detection and Prediction in the MENA Region: A Systematic Review. *Informatics in Medicine Unlocked*, *56*, 101651. https://doi.org/10.1016/j.imu.2025.101651
- Qasrawi, R., Daraghmeh, O., Qdaih, I., Thwib, S., Vicuna Polo, S., Owienah, H., Abu Al-Halawa, D., & Atari, S. (2024). Hybrid Ensemble Deep Learning Model for Advancing Breast Cancer Detection and Classification in Clinical Applications. *Heliyon*, *10*(19), e38374. https://doi.org/10.1016/j.heliyon.2024.e38374
- Qasrawi, R., Qdaih, I., Daraghmeh, O., Thwib, S., Vicuna Polo, S., Atari, S., & Abu Al-Halawa, D. (2024). Hybrid Ensemble Deep Learning Model for Advancing Ischemic Brain Stroke Detection and Classification in Clinical Application. *Journal of Imaging*, *10*(7), 160. https://doi.org/10.3390/jimaging10070160
- Qasrawi, R., Al Sabbah, H., Issa, G., Thwib, S., Amro, M., Atari, S., Tayyem, R., Bookari, K., Alawadhi, N., Allehdan, S., Trigui, H., Sokhn, E., Khader, Y., Badran, E., Kamel, I., Abdallah, A., Jemaà, M., Musa, E., & Kong, J. D. (2025). Assessing the Impact of Digital Health Literacy on Health Management Practices in Arab Middle Eastern and North African Countries: Insights from Predictive Modeling. *Frontiers in Digital Health*, *7*, 1555436. https://doi.org/10.3389/fdgth.2025.1555436