1 Curriculum Vitae

Personal Information

Name: Shadi Albarqouni
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Current Academic Position

W2 Professor of Computational Medical Imaging since 2022
Faculty of Medicine, University Hospital Bonn (UKB), University of Bonn, Germany
Research focus: machine learning and artificial intelligence for medical imaging, trustworthy and federated AI, clinical translation, and affordable AI, in close collaboration with clinical departments at UKB.

Previous Academic Positions

AI Young Investigator Group Leader 2020 – 2025
Helmholtz AI, Helmholtz Munich, Germany
Visiting Scientist 2019 – 2020
Department of Information Technology and Electrical Engineering, ETH Zurich, Switzerland
Visiting Scientist 2020
Computing Department, Imperial College London, United Kingdom
Postdoctoral Research Fellow and Team Leader 2017 – 2020
Chair for Computer-Aided Medical Procedures, TU Munich, Germany
Visiting Researcher 2013 – 2016
German Center for Neurodegenerative Diseases (DZNE), Bonn, Germany
Research Fellow 2013 – 2016
Chair for Computer-Aided Medical Procedures, TU Munich, Germany

Additional Academic Affiliations

Faculty Member since 2022
Bonn International Graduate School for Clinical and Population Science (BIGS)
Senior Affiliate since 2020
Technical University of Munich (TUM), Germany

Education

Ph.D. in Computer Science 2013 – 2017
Technical University of Munich (TUM), Germany
summa cum laude
Dissertation: *Machine Learning for Biomedical Applications: From Crowdsourcing to Deep Learning*
Supervisor: Prof. Nassir Navab
M.Sc. in Electrical Engineering 2005 – 2010
Islamic University of Gaza, Palestine — Ranked 1st in class

Awards, Fellowships, and Honors

- **Helmholtz AI Young Investigator Grant** (2020–2025, ∼1.8 M€; acceptance rate ∼5%)
- **DAAD PRIME Fellowship** (2019–2021, international mobility; acceptance rate ∼12%)
- **DAAD PhD Scholarship** (2012–2016; acceptance rate ∼3%)
- **Merit Scholarship for High Technology**, Islamic Development Bank (2012)

Several publications received best paper/poster awards at MICCAI and related venues.

Research Funding (Summary)

- **Total competitive funding:** ∼2.5 M€
- **Funded projects:** 15 as PI or co-PI; 6 as scientific lead

Major funders: DFG, Federal Ministry of Research, Technology and Space (BMFTR), DAAD, Helmholtz Association, University of Bonn (detailed funding list available on request).

Supervision of Doctoral and Graduate Theses

Supervised researchers come from medicine, computer science, engineering, and life sciences, with strong international and gender diversity.

Doctoral Supervision (PhD)

- **Doctoral researchers supervised (primary, scientific or co-supervisor):** 7 (4 completed, 3 ongoing)
- **Doctoral researchers mentored:** 6
- **Thesis Advisory Committee (TAC) member:** multiple PhD candidates at DKFZ, TU Wien, University of Bonn
- **External examiner for PhD defenses:** University of Bonn, TU Munich, University of Potsdam, University College London, Sorbonne University, IIT Kharagpur, and German University in Cairo.

Master's and Bachelor's Theses

- **Master's theses supervised:** 25
- **Bachelor's theses supervised:** 8
- **External examiner / committee member:** Germany, Middle East, and international universities

Teaching Experience (Selected, Named Courses)

Teaching across lectures, seminars, labs, and intensive block courses at bachelor's, master's, and doctoral levels:

- **Computational Medical Imaging** — Lecture and Lab (M.Sc. Computer Science, University of Bonn)
- **AI in Medicine** – Lecture and Lab (PhD Candidates at BIGS CPS/Neuroscience, University of Bonn)
- **Seminar on Computational Medical Imaging Research** — Research Seminar (PhD / M.Sc.)
- **Artificial Intelligence in Radiology** — Seminar (Medical Faculty)
- **AI Fundamentals for Medical Research** — Block Course (BIGS Graduate School)
- **Summer Schools and Block Courses on Medical AI** — Undergraduate to PhD level
- **Joint international teaching** with partner universities in Europe, the Middle East, and Australia

Academic Governance and Institutional Service

- **Appeals Committee Member**, Faculty of Medicine, University of Bonn
- **Expert Member** (Artificial Intelligence), Ethics Committee, Medical Faculty Bonn
- **Substitute Member**, Quality Improvement Commission (QVK), Medical Faculty Bonn
- **Steering Committee Member**, BIGS Graduate School
- **Evaluator and Reviewer of Applications**, Aptitude Assessment Commission (Eignungskommission), M.Sc. Biomedical Computing, Technical University of Munich (2020–2023)

Editorial, Reviewing, and Evaluation Activities

- **Associate Editor**, *IEEE Transactions on Medical Imaging* (since 2026) and *ACM Transactions on Intelligent Systems and Technology* (since 2025)
- **Editorial Board Member**, *International Journal of Computer Vision* (since 2024)
- **Guest Editor**, IEEE Transactions on Medical Imaging; Medical Image Analysis
- **Program Committee / Area Chair / Senior Reviewer**: MICCAI, MIDL, NeurIPS
- **Reviewer**: Nature Machine Intelligence, Nature Communications, IEEE TMI, and MedIA
- **Grant evaluator** for DFG, BMFTR, DAAD, SNSF, EU Horizon
- **External Assessor – Promotion to Professor**: Australia, United Arab Emirates, Jordan, and Germany

Professional Memberships and Affiliations

- **Elected Member**, European Laboratory for Learning and Intelligent Systems (ELLIS)
- **Elected Member**, Global Young Academy
- **Steering Committee Member**, German Alliance for Global Health Research (GLOHRA)
- **Steering Committee Member**, Arab German Young Academy (AGYA)
- **Senior Member**, IEEE (EMBS and Computer Society)
- **Member**, MICCAI Society

Training and Professional Development (Selected)

PhD Supervision Training (University of Bonn); Leadership and Research Group Management (Helmholtz Munich / TUM); Policy and Science Diplomacy Training and European Grant Strategy and Writing Workshops (GLOHRA).

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