Mahshad Sarikhani

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Summary

MD radiology researcher in abdominal MRI and multimodal AI. I bridge clinical questions with model design, data curation, and rigorous evaluation for IBD/MRE and related imaging tasks, aiming to translate model gains into decisions that matter in practice.

Clinical Impact Highlights

- **IBD imaging focus:** Magnetic resonance enterography (MRE) for disease activity & motility; collaboration with Motilent (UK).
- **Model development:** Built and evaluated predictive baselines integrating imaging with clinical/lab data; contributed to analysis plans, error review, and manuscript preparation.
- **Team science:** Cross-disciplinary work with radiology and ML collaborators; contributed to a clinical LLM systematic review and co-authored a chapter on AI in cardiovascular imaging.

Education

Shahid Beheshti University of Medical Sciences, Tehran　　　　　　　*Feb 2015 – May 2022*
Doctorate of Medicine (MD)
Full Scholarship Recipient

Research Experience

Research Associate (Abdominal Imaging and AI)　　　　　　　*Jan 2024 – Present*
Department of Radiology, Shariati Hospital, Tehran University of Medical Sciences

- Conduct quantitative MRI studies on IBD activity and colonic motility, integrating imaging, clinical, and laboratory data.
- Collaborate with the UK-based Motilent group on MRE motility studies (*ECCO 2025 poster accepted*; second project ongoing).
- Develop predictive models integrating imaging and clinical data; support data analysis, calibration, model evaluation, and manuscript preparation.
- Contributed to a systematic review on large language models in clinical research.
- Co-authored a book chapter on AI applications in cardiovascular imaging.

Research Assistant　　　　　　　*Sep 2022 – Dec 2023*
Shahid Beheshti University of Medical Sciences

- Worked on abdominal imaging research projects, including data analysis and AI integration.
- Conducted cost-effectiveness modelling for imaging-based diagnostic pathways.
- Collaborated on the PanCanAID research project, focusing on dataset curation and semi-automatic segmentation for pancreatic cancer CT.

Professional Experience

General Practitioner　　　　　　　*Aug 2022 – Aug 2024*
Valiasr Local Medical Center, Ministry of Health and Education, Alborz

- Diagnosed and managed a range of medical conditions; coordinated care with imaging and laboratory services.
- Performed physical examinations; ordered and interpreted imaging and laboratory tests; provided preventive-care counseling.
- Collaborated within a multidisciplinary team to develop and implement treatment plans.

Internship   *May 2020 – May 2022*
Teaching Hospitals, Shahid Beheshti University of Medical Sciences

- ○ Clinical rotations: internal medicine, general surgery, pediatrics, obstetrics and gynecology, emergency medicine, and radiology.
- ○ Performed patient examinations, documented medical histories, and contributed to treatment planning under attending supervision.
- ○ Assisted in minor procedures, inpatient care, and interdisciplinary clinical rounds.

Publications

Conference Presentation
Poster (Accepted) — ECCO 2025 Congress
Sarikhani M, Naim I, Torabi A, Amouei M, Vahedi H, Sima AR, Kolahdoozan S, Menys A, Radmard AR. Quantitative assessment of colon motility in ulcerative colitis using magnetic resonance enterography: Correlation with endoscopic disease activity. *European Crohn and Colitis Organization (ECCO) Congress*, Berlin, Germany, February 2025. DOI: 10.1093/ecco-jcc/jjae190.0729.

Peer-Reviewed Article
Kazemi SM, Khorram R, Fayyazishishavan E, Amani-Beni R, Haririan Y, Hosseini Khameneh SM, Rahmani E, Minaei Noshahr R, **Sarikhani M**, Rahimi R, Saeidi S, Saeidi D, Farrokhi M. Diagnostic accuracy of Ottawa Knee Rule for diagnosis of fracture in patients with knee trauma: A systematic review and meta-analysis. *Archives of Academic Emergency Medicine.* April 2023. DOI: 10.22037/aaem.v11i1.1934.

Preprint
Ghaffarzadeh-Esfahani M, Salahi-Niri A, Toreyhi H, Mohsenzadeh-Kermani A, **Sarikhani M**, Tajabadi Z, Shojaeian F, Bagheri MH, et al. Large language models versus classical machine learning: Performance in COVID-19 mortality prediction using high-dimensional tabular data. *arXiv.* September 2024. DOI: 10.48550/arXiv.2409.02136.

Skills

Programming & ML: Python (NumPy, pandas, scikit-learn,Keras, PyTorch, Matplotlib, Seaborn); version control (Git/GitHub); reproducible workflows.
Imaging: MRI concepts and quantitative imaging analysis; MRE for IBD activity and motility.
Research & Communication: Data analysis, study design, manuscript and abstract writing, cross-disciplinary collaboration, conference presentations.
Clinical: Clinical radiology research exposure; diagnostic and preventive medicine as a practicing general practitioner.

References

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