Geevarghese George, PhD
Vienna, Austria | LinkedIn

SUMMARY

- Self-Starter and Fast learner: Driven and proactive individual with a strong passion for AI and its emerging applications, especially in human-centred scenarios.
- Curiosity for New Technologies: A keen interest in exploring and keeping up-to-date with the latest advancements in the field, constantly seeking opportunities to leverage emerging technologies.
- Effective Communicator: Proficient in delivering compelling presentations, communicating complex ideas and conveying messages clearly to technical and non-technical audiences.
- Team Player and Contributor: Highly collaborative and cooperative, actively contributing to team dynamics, and working collectively towards shared goals.

SKILLS

Methods: Computer Vision, Machine Learning, Radiomics, Feature Selection, Classification, Segmentation, Hyperparameter Tuning, Data Analysis, MD Simulations
Frameworks: PyTorch, Lightning, fastai, TensorFlow, scikit-learn, Optuna, LAMMPS, Git, Docker, PySpark
Languages: Python, C/C++, Bash scripting, LaTeX, R, MATLAB/Octave, SQL
Other tools: Vim, VSCode, Jupyter, and *nix operating systems.

EXPERIENCE

Machine Learning Researcher 2022–Present
Medical Image Analysis & Artificial Intelligence (MIAAI) Research Center,
Danube Private University, Krems, Austria

- Independent Developer and Maintainer: Designed, developed, and maintained an in-house ML library for feature selection and ablation studies, resulting in the publication of 3+ highly collaborative research papers and conference posters.
- Collaborator and Mentor: Actively collaborated with interns, providing guidance and technical support to develop state-of-the-art 3D deep learning architectures.
- Lecturer: Trained medical students on effective literature review and harnessing large language models through prompt engineering.

EDUCATION

Doctor of Philosophy in Computational Physics 2017–2021
Theory and Simulation of Polymers (ETSP) Group
Institut Charles Sadron (ICS, CNRS) & University of Strasbourg, France
Topics: Molecular modeling, polymer physics, non-ergodic systems.

Master of Science in Polymer Science, Computational Physics 2015–2017
University of Freiburg, Germany
(Erasmus+) University of Strasbourg, France

Bachelor of Technology in Polymer Science & Engineering 2010–2014
Cochin University of Science and Technology, India

PROJECTS & PUBLICATIONS

- Breast MRI radiomics and machine learning radiomics-based predictions of response to neoadjuvant chemotherapy. S. Hatamikia, **G. George**, F. Schwarzhans, A. Mahbod, R. Woitek. *CSBJ* (under review, 2023)
- AI-based Time-Intensity-Curve assessment of breast tumors on MRI. Zaric, O., Hatamikia, S., **G. George**, Schwarzhans, F., Trattnig, S., Woitek, R. *European Radiology* (under review, 2023)
- Investigating the effect of varying intensity normalization techniques on the robustness and predictive power of radiomics features in MRI scans of breast cancer patients. F. Schwarzhans, **G. George**, L. E. Sanchez, O. Zaric, R. Woitek, S. Hatamikia (in preparation. 2023)
- Robustness evaluation of response prediction from abdominal CT with machine learning. S. Hatamikia, **G. George**, F. Schwarzhans, A. Mahbod, R. Woitek (in preparation. 2023)

Portfolio projects and open-source contributions: GitHub
Full list of research publications: Google Scholar

LANGUAGES

German (Sprachlehrinstitut Freiburg 2016 A2.2)
French (Test de Français International 2020 B1)
English (TOEFL 2014 C2)
Malayalam (Native)

EXTRA-CURRICULAR

Reviewer: Cancer Imaging
Runner-up, Concours artistique (Art in science contest)—ICS (2020)
Winner, Ma these en 180s—ICS edition (2019)
Photographer for doctoral school (EDPCP, UniStra) events (2017, 2018)
International student tutor (Studententutor), SWFR Freiburg (2016)

VISA STATUS

Nationality: Indian
Visa/Work permit (Austria): RWR Karte+