

Geevarghese GEORGE
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EXPERIENCE

Junior Researcher (Machine Learning) 2022–Present
Medical Image Analysis & Artificial Intelligence (MIAAI) Group,
Danube Private University GmbH, Austria

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
Thesis: **Rheological properties of freestanding polymer films.**

Master of Science in Sustainable Materials–Polymer Science 2015–2017
University of Freiburg, Germany
(Erasmus+) University of Strasbourg, France
Thesis: Computer simulation of polymer melts in the bulk and under confinement.
Specialization: Molecular Dynamics, Polymer Physics, Nanolithography.

Bachelor of Technology in Polymer Science & Engineering 2010–2014
Cochin University of Science and Technology, India
Specialization: Polymer Physics, Polymer Rheology, Polymer Processing.

SKILLS

Methods: Computer Vision, Machine Learning, Data Analysis, MD Simulations
Frameworks: PyTorch, fastai, scikit-learn, LAMMPS, Git, Slurm, Docker
Languages: Python, C/C++, Bash, \LaTeX , R, MATLAB/Octave, SQL, Julia
Others: PyCharm, Vim, Jupyter

PORTFOLIO PROJECTS

Blindness Detection [[GitHub](#)] Feb 2022
Image classification for early detection of diabetic retinopathy in patients. Implemented a custom ResNet18 model from scratch using PyTorch.

PyBx [[GitHub](#)] Jan 2022
Python package to generate, visualize, and work with anchor boxes and annotations for multi-box object detection models.

Semantic Segmentation of aerial imagery [[GitHub](#)] Dec 2021
Classification and semantic segmentation of aerial images from the TUGraz Drone Dataset using SMP and PyTorch.

COVID-19 Detection from chest radiographs [[Kaggle](#)] Aug 2021
Classification and bounding box localisation of abnormalities in chest X-Rays of SIIM-RSNA dataset. Implemented a custom SSD model pipeline using PyTorch.

Plant Pathology 2021 [[Kaggle](#)] Jun 2021
Image classification of foliar diseases in apple trees using fastai and PyTorch.

PUBLICATIONS

- Fluctuations of non-ergodic stochastic processes. **G. George**, L. Klochko, A.N. Semenov, J. Baschnagel & J.P. Wittmer. *Eur. Phys. J. E* 44, 54 (2021).
- Shear stress relaxation in free-standing polymer films. **G. George**, I. Kriuchevskiy, H. Meyer, J. Baschnagel & J.P. Wittmer. *Phys. Rev. E* 98, 6 (2018).

Full list: [Google Scholar](#)

LANGUAGES

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

EXTRA-CURRICULAR

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 (AT): RWR Karte+