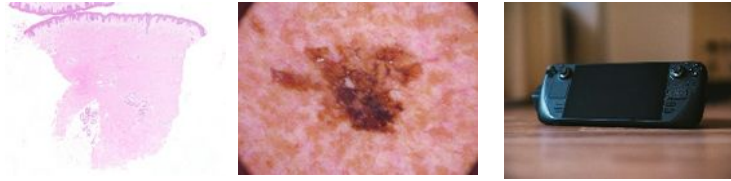


Digital Dermatopathology and diagnostic imaging in dermatology

Topics for: Master's thesis (potentially initialized by KfK-Seminar/KfK-Praktikum)

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We

- ... are dermatologists, dermatopathologists and computing scientists (<https://meduniwien.ac.at/vidir>), working on data engineering & image analysis in the context of dermatology and dermatopathology
- ... have working space equipped with GPUs for machine learning (ML) experiments
- ... work with cutting edge imaging technologies, such as slide scanners, digital dermatoscopes, 3D-Total-Body Scanners and in-vivo laser scanning microscopes, with large available data collections

You

- ... are fluent and interested in python, machine learning, text analysis and/or (large) image data
- ... commit to feedback meetings and publishing at a conference or journal

Examples of topics

Digital Dermatopathology

- Prototype UI/UX and diagnostic AI-support for a gaming device
- Prototype classifiers and interaction for user correction
- ML workflows for microscopy open-source software
- Search technology in the context of dermatopathology
- NLP experiments on dermatopathology text data

Clinical images

- Automatic anonymization

Dermatoscopy

- Classifiers of sequential and/or multimodal images