

Open HiWi position



The Visual Computing & Artificial Intelligence Lab at TUM is looking for a student assistant (m/f/x) for a project in neural rendering of human faces starting as soon as possible.

Photorealistic rendering of faces is currently a very active research field in computer vision. To further progress, we want to establish a benchmark for two common tasks: (1) photo-realistic dynamic novel view synthesis of human heads, and (2) 3D head avatar creation from monocular videos. To realize our benchmark, we are looking for a student assistant to support us flexibly 5-10h per week over a period of 3 months.

We offer:

- Insights into cutting-edge research in neural rendering for humans
- Acquiring knowledge of applied computer vision that is invaluable to many companies
- Flexible working hours (5-20h) & TUM-typical remuneration

Tasks:

- Implement and run baseline methods for dynamic novel view synthesis and monocular 3D head avatar creation
- Evaluate baselines with a shared evaluation protocol

Requirements:

- Good knowledge of PyTorch and experience with implementing neural networks
- Knowledge of 3D computer vision (3D Gaussian Splatting, camera conventions, differentiable rendering)
- High standards for code quality. Ability to write maintainable code
- Communicative and independent working person

The employment contract is initially limited to 3 months, but there is the possibility of an extension.

If you are interested, please send an email with your CV and grade reports to Tobias Kirschstein (tobias.kirschstein@tum.de).