

MICHAEL FISCHER

PhD Research Student
University College London



✉ michael.fischer.20@ucl.ac.uk

🌐 mfischer-ucl.github.io/

PROFILE

I am a second-year PhD student at UCL, where I work with Tobias Ritschel and Niloy Mitra. My research interests include appearance decompositions, meta-learning and intelligent optimization.

EDUCATION

PHD COMPUTER SCIENCE

Thesis Title: Efficient & High-Fidelity
Deep Representations of Graphic Assets
2018-2020, University College London

M.Sc. COMPUTER SCIENCE

Semester abroad
2020, UDG Guadalajara

M.Sc. COMPUTER SCIENCE

Thesis Title: Neural Networks for
automated image enhancement.
Graduated with distinction (1.0)
2018-2020, JMU Wuerzburg

B.Sc. AEROSPACE I.T.

Graduated with merit (1.6)
2014-2017, JMU Wuerzburg

SKILLS

LANGUAGES

German, English, Spanish, French

PROGRAMMING LANGUAGES

Python, C++, WebGL, GLSL, Matlab

LIBRARIES & FRAMEWORKS

PyTorch, Tensorflow, LaTeX

SOFTWARE

Blender, Adobe Illustrator, GIT

OTHER

Certified IPMA project manager

EXPERIENCE

MBDA SYSTEMS

R&D Internship "Flight Control Algorithms"
Reinforcement-learning based drone defence strategies
2018, Schrobenhausen, Germany

RESEARCH ASSISTANT

Synthetic data generation for OCR applications
2018-2020, JMU Wuerzburg

TEACHING ASSISTANT

Soft- and hardware laboratories, student exams, marking
2017 - present, JMU, UCL

PUBLICATIONS

METAPPEARANCE: META-LEARNING FOR VISUAL APPEARANCE REPRODUCTION

Michael Fischer, Tobias Ritschel
SIGGRAPH Asia 2022, Journal Track

PLATEAU-FREE DIFFERENTIABLE PATH TRACING

Michael Fischer, Tobias Ritschel
arXiv preprint (under submission)

LEARNING TO LEARN AND SAMPLE BRDFS

Chen Liu, Michael Fischer, Tobias Ritschel
arXiv preprint (under submission)

NICER: AUTOMATED IMAGE ENHANCEMENT WITH HUMANS IN THE LOOP

Michael Fischer, Konstantin Kobs, Andreas Hotho
ACHI 2020