Lukas Uzolas

Delft | Netherlands

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EDUCATION

Ph.D. | CGV - Computer Science   May. 2022 – ongoing
Delft University of Technology   *Delft, Netherlands*

- Computer Graphics, 3D Computer Vision, Machine Learning
- Supervised by Petr Kellnhofer & Elmar Eisemann

M.Sc. | Image Processing and Computer Vision   Sep. 2019 – Sep. 2021
PPCU, **UAM**, **UBx**   *Hungary, Spain, France*

- Erasmus Mundus Master Degree jointly coordinated by three European universities
- Advanced courses in Image Processing, Machine Learning, and 3D Vision

B.Sc. | Human-Computer-Interaction   Oct. 2015 – Jun. 2019
University of Hamburg   *Hamburg, Germany*

- Computer Science and Psychology

B.Sc. | Business and Psychology   Sep. 2014 – Sep. 2015
eufom   *Hamburg, Germany*

- After a year, I switched to Computer Science after discovering my fascination with it

EXPERIENCE

Ph.D. | CGV - Computer Science   May. 2022 – ongoing
Delft University of Technology   *Delft, Netherlands*

- Conducting independent research
- Co-supervision of multiple B.Sc. and M.Sc. thesis projects
- Teaching Assistant in Applied Image Processing and 3D Visual Computing

Master Thesis Research Intern   Feb. 2021 – Jun. 2021
VCG SEAS, Harvard University   *Cambridge, MA, USA*

- Research internship to conduct my Master's thesis at the Visual Computing Group
- Conducted remotely due to the Covid pandemic

Summer Research Intern   Jul. 2020 – Sep. 2020
MEDIC   *Madrid, Spain*

- Research and implementation of eye feature extraction algorithms from images

Working Student Software Development   Oct. 2017 – Feb. 2019
Senacor, *Daimler AG*, *BOOM GmbH*   *Hamburg & Stuttgart, Germany*

- Responsible for realizing multiple prototypes at various companies
- Design and implementation of web apps, with a focus on Backend applications

Student Supervisor in Software Development   Oct. 2016 – July. 2017
University of Hamburg   *Hamburg, Germany*

- Teaching object-oriented programming to students, supervision and examination of student's homework, preparation of educational materials

Awards and Honours

Honours M.Sc. Degree in IPCV   Sep. 2021
Honours degree in Image Processing and Computer Vision

Erasmus Mundus Master Scholarship   Sep. 2019
Fully funded graduate studies with an acceptance rate below 5 percent

Outstanding B.Sc. Degree in HCI   Jun. 2019
Best Human-Computer-Interaction degree in the summer semester of 2019

Publications

Surface-Aware Distilled 3D Semantic Features, arXiv 2025 [paper]
Lukas Uzolas, Elmar Eisemann, Petr Kellnhofer

MotionDreamer: Exploring Semantic Video Diffusion features for Zero-Shot 3D Mesh Animation, 3DV 2025 [paper]
Lukas Uzolas, Elmar Eisemann, Petr Kellnhofer

Template-free Articulated Neural Point Clouds for Reposable View Synthesis, NeurIPS 2023 [paper]
Lukas Uzolas, Elmar Eisemann, Petr Kellnhofer

Deep Anomaly Generation: An Image Translation Approach of Synthesizing Abnormal Banded Chromosome Images, IEEE Access 2022 [paper]
Lukas Uzolas*, Javier Rico*, Pierrick Coupé, Juan C. SanMiguel, and György Cserey

Scale & Walk: Evaluation of scaling-based interaction techniques for natural locomotion in VR, Mensch und Computer 2018 [paper (German)]
Boysen, Yannic*; Husung, Malte*; Mantei, Timo*; Müller, Lisa-Maria*; Schimmelpfennig, Joshua*; Lukas Uzolas*; Langbehn, Eike;
Original title (German): Evaluation von skalierungsbasierten Interaktionstechniken zur natürlichen Fortbewegung in VR

equal contribution

Languages

English *(Fluent)*, German *(Native)*, Lithuanian *(Intermediate)*, Mandarin *(Beginner)*

Coding Proficiency

I have worked with the following languages and frameworks amongst others:

Python (PyTorch, Tensorflow, Numpy, Pandas, scikit-learn, OpenCV, etc.), **C++**, **NodeJS**, **Javascript**, **Java**, **C#**, **Matlab**, **Unity**, **Racket**, **AWS**, **SQL**, **NoSQL** (MongoDB), **Git**, **slurm**, **Linux**, **HTML**, **CSS**