Lukas Uzolas

Delft | Netherlands | +49 17623645096

lukas@uzolas.com | github.com/lukasuz | linkedin.com/in/lukas-uzolas

EDUCATION

Ph.D | **Computer Science**   May. 2022 – ongoing
TU Delft   Delft, Netherlands

- Neural Rendering, Computer Vision, Machine Learning

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

- Erasmus Mundus Master Degree conducted at three universities
- Thesis: Meta-Learning for Domain Generalization with Style-based Parameter Prediction in Biomedical Image Segmentation [thesis]

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

- Thesis: Evaluation of Grayscale Hand Gesture Segmentation with Fully Convolutional Neural Networks [thesis]

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

- After a year of studying, I realized I am more interested in Computer Science and changed my course of study

EXPERIENCE

Master Thesis Research Intern (Remote)   Feb. 2021 – Jun. 2021
VCG SEAS, Harvard University   Boston, USA

- Reseach internship to conduct my Master's thesis at the Visual Computing Group, Harvard University

Summer Research Intern   Jul. 2020 – Sep. 2020
Medical Engineering Development & Innovation Center   Madrid, Spain

- Research and implementation of algorithms extracting features of the eyes from high speed cameras with Matlab

Working Student Backend Development   Oct. 2018 – Feb. 2019
BOOM GmbH   Hamburg, Germany

- Web development in a diverse team and fast-paced environment
- Responsible for conceptualization and implementation of Backend applications with Node.Js, Alexa, AWS, Python, Linux, REST APIS, and data visualization libraries

Project, Working Student Fullstack Development   Feb. 2018 – Jul. 2018
Daimler AG   Stuttgart, Germany

- Conceptualization of two intelligent car configurator Proofs-of-Concept for smart and Vans involving a chatbot based on IBM Watson
- Responsible for software architecture and implementation of the Backend in NodeJs

Working Student Fullstack Development   Oct. 2017 – Jan. 2018
Senacor Technologies   Hamburg, Germany

- Agile Development of software for internal use in the company
- Programming with JavaScript, Vue.Js, C#, and MySQL

Teaching

Teaching Assistant in Applied Image Processing   Sep. 2022 - Nov. 2022
TU Delft   Delft, Netherlands

- Supervision of practical sessions, grading, helping with class materials

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

- Supervision and examination of student's homework and preparation of educational materials
- Teaching Object-oriented programming with Java, BlueJ, and Eclipse to students

Awards and Honours

M.Sc. Honours Degree & Best of Class   Sep. 2021
Honours degree by the Pázmány Péter Catholic University (grade: 4.97/5),
best in class according to the Autonomous University of Madrid (1/19)

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

Template-free Articulated Neural Point Clouds for Reposable View Synthesis, arXiv 2023, [preprint].
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*; Uzolas, Lukas*; Langbehn, Eike;
Original title (German): Evaluation von skalierungsbasierten Interaktionstechniken zur natürlichen Fortbewegung in VR
*: equal contribution