PETER SZABO

I am currently a student of a triple degree Master Program in Image Processing and Computer Vision. My field of interest is Deep Learning related Computer Vision technologies, but ready to discover new areas. I finished my master at the summer of 2020, and currently looking for an opportunity to apply my knowledge in research and continue to grow my expertise.

fjuzi22@gmail.com

EDUCATION

Erasmus Mundus Masters in Image Processing and Computer Vision *2019 – 2021 (June)*

PPCU, Hungary · UAM, Spain · Ubx, France

Specialized Erasmus Mundus Joint Master's degree with a wide reach of topics. Current GPA of 4.55. http://ipcv.eu/

Molecular Bionics Engineering B.Sc *2015 - 2019*

PPCU, Budapest Hungary

WORK EXPERIENCE

Research Intern *Jan. 2021 – June 2021*

Vicomtech (member of Basque Research and Technology Alliance

Full-time Development of master thesis project called: Enhancing 360° VR Experiences with Machine Learning-based Multisensorial Effects, as a part of EU Horizon 2020 program, TRACTION (No 870610)

Full-stack developer *June 2019 – Jan. 2020*

MODIT zrt.

Digitization of Hungarian Adaptation System in Java EE and Angular.

Research Intern *Feb. 2018 - Jan. 2019*

SZTAKI (Institute for Computer Science and Control)

Research internship at Machine Perception Research Laboratory (Hungarian Academy of Sciences) as a part of a medical image processing project, called: zMed.

PROJECTS AND ACHIEVEMENTS

Enhancing 360° VR Experiences with Machine Learning-based Multisensorial Effects:

Master thesis in about designing novel solutions for enhancing 360° VR content with multimedia (olfactory and haptic) input, working on Oculus Quest

FaceQNet:

Explored the impact of masks on the performance of state-of-the-art face quality assessment system, called FaceQNet, and investigate possible solutions. Evaluate its performance in several challenging environmental scenarios.

3D Reconstruction of the Hepatic Vessels:

Automatic segmentation and labeling of hepatic vessels from raw CT images.

Corona AR

Microsoft Hololens based AR game

Object Detection and Tracking: [code]

With Kalman filter and histogram-based approaches

3D Scene Reconstruction through Multiple Images [code]

3D Scene reconstruction from multiple images and camera calibration

More information on my personal website

SKILLS

Python, Matlab, C++, Java, Html, Javascript

OpenCV, Keras, Pytorch, Sckit, Unity, Hololens, Oculus

Latex, Linux

self learning and management, academic writing, teamwork, communication skills, problem solving, teaching

LANGUAGES

English: professional proficiency

German: conversational

Hungarian: native

Spanish: beginner

AWARDS

Erasmus Mundus Scholarship (2019)

3rd place at **National Conference of Student Research Societies** in Hungary (2019)

UNKP scholarship New National Excellence Program by of the Ministry of Human Capacities of Hungary (2018)

Honours Bachelor degree (2019)

For more information about the projects open the QR cod