PETER SZABO

I have just completed my triple degree Master Program in Image Processing and Computer Vision. My field of interest is Deep Learning related to Computer Vision technologies, but I am also ready to discover new areas. I am currently looking for an opportunity to apply my knowledge in research and continue to grow my expertise.

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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 range of topics. GPA of 4.55/5. 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) in collaboration with Dublin City University.

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: [code, tutorial, dataset]

Master thesis in designing novel solutions for enhancing 360° VR content with multimedia (olfactory and haptic) input, working on Oculus Quest 2. Currently, under process of journal publication (IEEE).

FaceQNet:

Exploring the impact of masks on the performance of state-of-the-art face quality assessment system, called FaceQNet, and investigating possible solutions. Evaluating its performance in challenging environmental scenarios.

3D Reconstruction of the Hepatic Vessels:

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

Corona AR: [report]

Interactive AR game on Microsoft Hololens in Unity.

Object Detection and Tracking: [code]

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 website

SKILLS

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

OpenCV, Keras, Pytorch, Sckit, Unity, CUDA

Latex, Linux

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

LANGUAGES

English: professional proficiency

German: conversational

Hungarian: native

Spanish: conversational

AWARDS

Erasmus Mundus Scholarship (2019)

3rd place at **National Conference of Student Research Societies** (OTDK) 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 code