

Nora Horanyi

PH.D. CANDIDATE

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Education

Ph.D. in Computer Science

INTELLIGENT ROBOTICS LABORATORY, SCHOOL OF COMPUTER SCIENCE, UNIVERSITY OF BIRMINGHAM

Birmingham, UK

2018-present

- **Thesis topic:** Human attention target estimation and application on images

M.Sc. in Info-Bionics Engineering

FACULTY OF SCIENCE AND INFORMATICS, UNIVERSITY OF SZEGED

Szeged, Hungary

2016-2018

- **Thesis title:** Absolute pose estimation using 3D-2D line correspondences and vertical direction — *Excellent with institutional award*

B.Sc. in Molecular Bionics Engineering

FACULTY OF SCIENCE AND INFORMATICS, UNIVERSITY OF SZEGED

Szeged, Hungary

2012-2016

- **Thesis title:** Measurement of electric surface charge on cultured brain endothelial cells — *Excellent with national awards*

Experience

Research Assistant

SCHOOL OF COMPUTER SCIENCE, UNIVERSITY OF BIRMINGHAM

Birmingham, UK

Aug. 2021 - present

- Research project with the Korea Electronics Technology Institute
- Supervisor: Dr. Hyung Jin Chang

Teaching Assistant

SCHOOL OF COMPUTER SCIENCE, UNIVERSITY OF BIRMINGHAM

Birmingham, UK

2018 - present

- Courses: Mathematical Foundations of Computer Science, Robot Vision, Computer Vision and Imaging

Research Associate

CHAIR OF COMPUTER GRAPHICS AND VISUALIZATION, TECHNICAL UNIVERSITY OF DRESDEN

Dresden, Germany

Jan. 2018 - June 2018

- NeuroFusion project
- Supervisor: Prof. Dr. rer. nat. Stefan Gumhold

Student researcher

RESEARCH CENTER FOR AUTOMATIC CONTROL OF NANCY, UNIVERSITY OF LORRAINE

Nancy, France

Apr. 2017 - May 2017

- NETASSIST project
- Supervisor: Constantin Morărescu

Student researcher

RESEARCH GROUP ON VISUAL COMPUTATION, UNIVERSITY OF SZEGED

Szeged, Hungary

2016 - 2018

- Master's thesis project
- Traffic Object Detection and Registration with Stereo Imaging System project
- Supervisor: Prof. Zoltan Kato

Selected Publications

- 2022 Linfang Zheng, Ales Leonardis, Tze Ho Elden Tse, Nora Horanyi, Hua Chen, Wei Zhang, Hyung Jin Chang
TP-AE: Temporally Primed 6D Object Pose Tracking with Auto-Encoders .
In Proceedings of Conference on Robotics and Automation (ICRA), IEEE
- 2021 Nora Horanyi, Kedi Xia, Kwang Moo Yi, Abhishake Kumar Bojja, Ales Leonardis, Hyung Jin Chang
Repurposing Existing Deep Networks for Caption and Aesthetic-Guided Image Cropping.
In Proceedings of Pattern Recognition, Elsevier
- 2017 Nora Horanyi, Zoltan Kato
Multiview Absolute Pose Using 3D - 2D Perspective Line Correspondences and Vertical Direction.
In Proceedings of the ICCV Workshop on Multiview Relationships in 3D Data, IEEE
- 2017 Nora Horanyi, Zoltan Kato
Generalized Pose Estimation from Line Correspondences with Known Vertical Direction.
In Proceedings of International Conference on 3D Vision, IEEE

Skills

- Languages** English proficient, Hungarian native, German pre-intermediate
- Programming** Python, MATLAB, C, R, Maple
- Licenses** B2 driving license, European Computer Driving Licence Certificate
- Other** Team spirit, Ability to cooperate, Open-minded, Creativity, Logical thinking, Hard-working, Goal oriented