

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 Nora Horanyi, Kedi Xia, Kwang Moo Yi, Abhishake Kumar Bojja, Ales Leonardis, 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 Linfang Zheng, Ales Leonardis, Tze Ho Elden Tse, Nora Horanyi, Hua Chen, Wei Zhang, 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