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

• Thesis topic: Human attention target estimation and application on images

M.Sc. in Info-Bionics Engineering

FACULTY OF SCIENCE AND INFORMATICS, UNIVERSITY OF SZEGED

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

• Final grade: 4.88/5

B.Sc. in Molecular Bionics Engineering

FACULTY OF SCIENCE AND INFORMATICS, UNIVERSITY OF SZEGED

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

• **Final grade:** 3.97/5

Specialized Mathematics class

SÁGVÁRI ENDRE GRAMMAR SCHOOL, SZEGED, HUNGARY

• Final grade: 4.8/5

Experience ____

Research Assistant

SCHOOL OF COMPUTER SCIENCE, UNIVERSITY OF BIRMINGHAM

Research project with the Korea Electronics Technology Institute

· Supervisor: Dr. Hyung Jin Chang

Teaching Assistant

SCHOOL OF COMPUTER SCIENCE, UNIVERSITY OF BIRMINGHAM

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

Research Associate Chair of Computer Graphics and Visualization, Technical University of Dresden

• NeuroFusion project

· Supervisor: Prof. Dr. rer. nat. Stefan Gumhold

Student researcher RESEARCH CENTER FOR AUTOMATIC CONTROL OF NANCY, UNIVERSITY OF LORRAINE

NETASSIST project

· Supervisor: Constantin Morãrescu

Student researcher

RESEARCH GROUP ON VISUAL COMPUTATION, UNIVERSITY OF SZEGED

• Master's thesis project

• Traffic Object Detection and Registration with Stereo Imaging System project

• Supervisor: Prof. Zoltan Kato

Student researcher

BIOMOLECULAR ELECTRONICS RESEARCH GROUP, BIOLOGICAL RESEARCH CENTRE, HAS

· Integrated, microfluidical biochip development project

• Supervisors: Dr. Andras Der and Dr. Andras Kincses

MOLECULAR NEUROBIOLOGY LABORATORY, INSTITUTE OF BIOPHYSICS, BIOLOGICAL RESEARCH CENTRE, HAS

· Bachelor's thesis project

Student researcher

· Supervisors: Dr. Maria Deli and Dr. Fruzsina Walter

Birmingham, UK

2018-present

Szeged, Hungary

2016-2018

Szeged, Hungary

2012-2016

Szeged, Hungary

2008-2012

Birmingham, UK

Aug. 2021 - present

Birmingham, UK

2018 - present

Dresden, Germany

Jan. 2018 - June 2018

Nancy, France

Apr. 2017 - May 2017

Szeged, Hungary

2016 - 2018

Szeged, Hungary

2014 - 2016

Szeged, Hungary

2013 - 2016

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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 Andras Kincses, Ana R. Santa-Maria, Fruzsina R. Walter, Laszlo Der, Nora Horanyi, Dora V. Lipka, Sandor Valkai, Maria A. Deli, 2020 and Andras Der A chip device to determine surface charge properties of confluent cell monolayers by measuring streaming potential. In Proceedings of Lab on a chip, Royal Society of Chemistry 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

Generalized Pose Estimation from Line Correspondences with Known Vertical Direction.

In Proceedings of International Conference on 3D Vision, IEEE

Honors & Awards

Nora Horanyi, Zoltan Kato

2017

2019	Best presentation award, Research skills module, EPS, University of Birmingham	Birmingham, UK
2017	1 st prize & Outstanding research Morgan Stanley award - oral presentation, Computer Science section,	Szeged, Hungary
	Local competition round, National Scientific Students' Associations Conference	
2017	Honor of the Dean of the University of Szeged, Achievements in the National Scientific Students'	Szeged, Hungary
	Associations Conferences	
2017	3rd prize - oral presentation , Biology section (Animal Pshysiology), National competition round, National	Debrecen, Hungary
	Scientific Students' Associations Conference	
2016	2nd prize - oral presentation , Biology section (Animal Pshysiology), Local competition round, National	Szeged, Hungary
	Scientific Students' Associations Conference	Szegea, Haligary
2016	2 nd prize - Image processing project competition , Summer School on Image Processing	Szeged, Hungary

Scholarships & Grants _____

2018	Ph.D. studentship , School of Computer Science, University of Birmingham	Birmingham, UK
2018	Morgan Stanley scholarship, Outstanding research performance in TDK conference	Szeged, Hungary
2017	Research scholarship, Institute of Informatics, University of Szeged	Szeged, Hungary
2012-2018 Hungarian Governmental Scholarship , Scholarship for Higher Education for outstanding GPA		Hungary

Training _____

International Computer Vision Summer School

ICVSS 2020

Punta Sampieri, Ragusa, Scicli

Thessaloniki, Greece

Drone School and Workshops - Deep learning and Computer vision for drone imaging and cinematography

ARTIFICIAL INTELLIGENCE AND INFORMATION ANALYSIS LAB, ARISTOTLE UNIVERSITY OF THESSALONIKI, GREECE 2018

Vision and Sports Summer SchoolPrague, Czech RepublicCzech Technical University, Czech Republic2017

Summer School on Image Processing

Szeged, Hungary

University of Szeged, Hungary 201

Advanced Spring School for Students in Biology

Eotvos Lorand University, Hungary

2015

Advanced Summer School for Students in Medicine and Physics

University of Szeged, Hungary

2015

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

Other Activities _

Girls in STEM Day workshop organization	Birmingham, UK
Intelligent Robotics Laboratory, School of Computer Science, University of Birmingham	2019
Mini and summer projects supervision of MSc students in Computer Science	Birmingham, UK
Intelligent Robotics Laboratory, School of Computer Science, University of Birmingham	2018-present
Teaching Calculus and Mathematics for fellow graduate and grammar school students	Szeged, Hungary

Organization and presentation at the Girls in ICT event

FACULTY OF SCIENCE AND INFORMATICS, UNIVERSITY OF SZEGED

International Mentor of the Stipendium Hungaricum foreigner studentsSzeged, HungaryUNIVERSITY OF SZEGED2015-2016

2013-2017

2013-2016

Szeged, Hungary

Szeged, Hungary

Organization and laboratory presentation at the National Researcher's Night

BIOLOGICAL RESEARCH CENTRE, HAS

Organization of the annual Brain Awareness WeekSzeged, HungaryBIOLOGICAL RESEARCH CENTRE, HAS2013-2016