Curriculum Vitae

Name: Nora Horanyi

Web site: https://horanyinora.github.io/

I. EDUCATION

2018-	Ph.D. in Computer Science Intelligent Robotics Laboratory, School of Computer Science University of Birmingham, Birmingham, UK
2016-2018	M.Sc. in Info-Bionics Engineering Faculty of Science and Informatics, University of Szeged Final grade: 4.88/5, Thesis: excellent with institutional award
2012-2016	B.Sc. in Molecular Bionics Engineering Faculty of Science and Informatics, University of Szeged Final Grade: 3.97/5, Thesis: excellent with national awards
2008-2012	Specialized Mathematics class Ságvári Endre Grammar School, Szeged, Hungary Final Grade: 4.8/5

II. TRAININGS

7-13th July 2019	International Computer Vision Summer School Punta Sampieri, Sicily
29-31st August 2018	Drone School & Workshop: Deep learning and Computer vision for drone imaging and cinematography Artificial Intelligence and Information Analysis (AIIA) Lab, Department of Computer Science Aristotle University of Thessaloniki (AUTH), Greece
21-26th August 2017	Vision and Sports Summer School Czech Technical University Prague, Czech Republic Poster presentation: Multiview Absolute Pose Using 3D - 2D Perspective Line Correspondences and Vertical Direction.
7-16th June 2016	Summer School on Image Processing University of Szeged, Hungary 2nd prize in the project competition Project: OCT image analysis
20-22nd March 2015	Advanced Spring School for Students in Biology, Eötvös Loránd University, Budapest, Hungary
14-25th July 2014	Lasers in Medicine and Life Sciences Advanced Summer School for Students in Medicine and Physics University of Szeged, Hungary

III. SCIENTIFIC COMMUNICATIONS

2017 **Nora Horanyi,** Zoltan Kato, Generalized Pose Estimation from Line Correspondences with Known Vertical Direction, *In Proceedings of International Conference on 3D Vision,* Qingdao, China, 2017, IEEE.

Nora Horanyi, Zoltan Kato, Multiview Absolute Pose Using 3D - 2D Perspective Line Correspondences and Vertical Direction, *In Proceedings of ICCV Workshop on Multiview Relationships in 3D Data*, Venice, Italy, 2017, IEEE.

Ana Raquel Santa Maria, Fruzsina Walter, **Nora Horanyi**, András Kincses, Ilona Gróf, Sándor Valkai, András Dér, Mária A. Deli. The effect of surface charge on brain endothelial permeability. *Straub days* - Biological Research Centre, HAS (poster)

IV. PROFESSIONAL EXPERIENCE

2018- Teaching Assistant
School of Computer Science, University of Birmingham

Courses: Mathematical Foundations of Computer Science, Robot Vision

Jan-June 2018 Research Associate
Chair of Computer Graphics and Visualization
Technical University of Dresden, Germany
Supervisor: Prof. Dr. rer. nat. Stefan Gumhold

NeuroFusion Project

2016-2017 Student researcher
Research Group on Visual Computation
University of Szeged, Hungary
Supervisor: Prof. Zoltan Kato

Master's thesis: Absolute pose estimation using 3D-2D line correspondences and vertical direction

April-May 2017 Student researcher – short research stay
Research Center for Automatic Control of Nancy
University of Lorraine, France
Supervisor: Constantin Morãrescu

Project: Developing drone control application based on sensor and visual information in the framework of the NETASSIST project

2014-2016 Student researcher
Biomolecular Electronics Research group
Biological Research Centre, HAS, Szeged, Hungary
Supervisors: Dr. Andras Der and Andras Kincses

Project: Integrated, microfluidical biochip development and testing according to measurements of Zeta potencial

2013-2016 Student researcher
Molecular Neurobiology Laboratory, Institute of Biophysics
Biological Research Centre, HAS, Szeged, Hungary
Supervisors: Dr. Maria Deli and Dr. Fruzsina Walter

Bachelor's thesis: Changing the surface charge of brain endothelial cells by the digestion of glycocalyx with enzymes (rating: excellent)

V. HONOURS AND AWARDS

3rd May 2019	Best presentation award Research skills module, School of Computer Science, University of Birmingham
7th December 2017	1st prize in the local competition round of National Scientific Students' Associations Conference organized by the University of Szeged Presented topic: Vision-based localisation of a generalized camera from line correspondences and known vertical direction
12th April 2017	3rd prize in the National Scientific Students' Associations Conference organized by the Hungarian National Council of Student Research Societies Biology section - Animal physiology Presented topic: Changing the surface charge of brain endothelial cells by the digestion of glycocalyx with enzymes
24th November 2016	2nd prize in the local competition round of National Scientific Students' Associations Conference organized by the University of Szeged Presented topic: Changing the surface charge of brain endothelial cells by the digestion of glycocalyx with enzymes
16th June 2016	2nd prize in the project competition - Summer School on Image Processing Project: OCT image analysis

VI. SCHOLARSHIPS AND GRANTS

October 2018 –	Ph.D. studentship from the University of Birmingham
December 2017	Scholarship from Morgan Stanley for the outstanding results in TDK conference
November 2017 - January 2017	"Visual computations" scientific scholarship for talented young researchers of the University of Szeged
January 2013 - December 2017	Monthly grant from the University of Szeged for excellent grades based on cumulative GPA credits
January 2017 - November 2017	"Visual computations" scientific scholarship for talented young researchers of the University of Szeged
February 2016 - January 2018	Hungarian Governmental Scholarship for my master studies in Info-bionics Engineering
September 2012 - January 2016	Hungarian Governmental Scholarship for my bachelor studies in Molecular Bionics Engineering

VII. COMPETENCES

Language	English: C1 level, complex, German: passive B2
Driving	B2 driving licence
Computational skills	European Computer Driving Licence Certificate
Programming skills and other softwares	MATLAB, python Maple, R Statistical Software
Other	Team spirit, ability to cooperate, open-minded, creativity, logical thinking, hard-working, goal oriented

VIII. OTHER ACTIVITIES

2019	Girls in STEM Day workshop organization Intelligent Robotics Lab, School of Computer Science, University of Birmingham
2018-	Mini and summer projects supervision of MSc students in Computer Science
2013- 2017	Teaching Calculus and Mathematics for fellow graduate and grammar school students as my hobby
2016	Organization and presentation of the Girls in ICT event to motivate the secondary school girl students to start their studies in the field of informatics
2015 -2016	International Mentor of the Stipendium Hungaricum foreigner students of the University of Szeged
2013 -2016	Organization and laboratory presentation at the National Researcher's Night in Biological Research Centre of Szeged
2013 -2016	Organization of the annual Brain Awareness Week in Hungary, Szeged