Curriculum Vitae

Personal information

Name:	Nóra Horányi
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Education

2016- Jan 2018	M.Sc. in Info Bionics Engineering Studies Faculty of Science and Informatics University of Szeged
2012-2016	B.Sc. in Molecular Bionics Engineering Studies Faculty of Science and Informatics University of Szeged
2008-2012	Specialized Mathematics class Ságvári Endre Grammar School Szeged, Hungary

Trainings

21-26th August 2017	Vision and Sports Summer School Czech Technical University, Prague, Czech Republic
7-16th June 2016	Summer School on Image Processing University of Szeged, Hungary
20-22th March 2015	How to create a research plan 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

Honours and awards

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

Scholarships and grants

January 2013 - present	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

Professional experience

2016- present	Student researcher Research Group on Visual Computation University of Szeged, Hungary Supervisor: Prof. Zoltan Kato Master's thesis: Pose estimation of a stereo camera pair mounted on a moving platform
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 measureme of Zeta potencial Skills: construction of the biochips (gold evaporation, PDMS), cell culturing, manipulation of the cells and making measurements, quantification of the datas
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) Skills: cell culture (hCMEC/D3 cell line, primary endothelial cell line) and experiments with them, immunohistochemistry(WGA), flourescent microscopy(Leica) and intensity analysis of the pictures(Photoshop, ImageJ, Matlab) , Malvern Zetasizer Nano Z system, TEER registration

Scientific communications

2017   **Nora Horanyi**, and Zoltan Kato. Multiview Absolute Pose Using 3D - 2D Perspective Line Correspondences and Vertical Direction. *Multiview Relationships in 3D Data 2017 (IEEE International Conference on Computer Vision Workshops)* – accepted (conference paper)

        Nora Horanyi, and Zoltan Kato. Generalized Pose Estimation from Line Correspondences with Known Vertical Direction. *International Conference on 3D Vision* – accepted (conference paper)

        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)

Memberships

2016 - 2017   John von Neumann Computer Society (NJSZT)

Competences

Language	English, C1 level, complex German (passive)
Driving	B2 driving licence
Computational skills	European Computer Driving Licence Certificate
Programming skills and other softwares	C programming language MATLAB Maple, ORACLE, R Statistical Software, Leica LAS AF, Malvern Zetasizer Software, ImageJ
Other skills	Team spirit, ability to cooperate, open-minded creativity, logical thinking

Other activities

2013-present   Teaching 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