

Curriculum Vitae

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I. EDUCATION

2016- Jan 2018	M.Sc. in Info Bionics Engineering Studies Faculty of Science and Informatics University of Szeged GPA of three completed semesters: 4.7/5	Digital image processing, Image registration, Theory of the neural networks, Statistics, Mathematical analysis, Medical imaging
2012-2016	B.Sc. in Molecular Bionics Engineering Studies Faculty of Science and Informatics University of Szeged Final Grade: 3.97/5 Thesis: excellent with national awards	Calculus 1-2, Discrete Mathematics 1-2, Programming, Algorithms and databases, Signal processing, Robotics, Stochastics, Bioinformatics, Microscopy techniques, Cell biology, Spectroscopical methods
2008-2012	Specialized Mathematics class Ságvári Endre Grammar School Szeged, Hungary Final Grade: 4.8/5	

II. TRAININGS

21-26 th 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.
7-16 th June 2016	Summer School on Image Processing University of Szeged, Hungary	2 nd prize in the project competition Project: OCT image analysis
20-22 th March 2015	How to create a research plan Advanced Spring School for Students in Biology Eötvös Loránd University, Budapest, Hungary	
14-25 th July 2014	Lasers in Medicine and Life Sciences Advanced Summer School for Students in Medicine and Physics University of Szeged, Hungary	

III. HONOURS AND AWARDS

7 th December 2017	1 st 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
12 th April 2017	3 rd 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
24 th November 2016	2 nd 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
16 th June 2016	2 nd prize in the project competition - Summer School on Image Processing Project: OCT image analysis

IV. SCHOLARSHIPS AND GRANTS

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

V. MEMBERSHIPS

2016 - 2017	John von Neumann Computer Society (NJSZT) Computer Vision Foundation
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VI. PROFESSIONAL EXPERIENCE

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 Morărescu 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 potential
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)

VII. 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)

VIII. COMPETENCES

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

IX. OTHER ACTIVITIES

2013- present	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