Name: Nora Horanyi

*Curriculum Vitae*

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 | | | |