Kristóf Furuglyás

Curriculum Vitae

Personal Information

Name:	Furuglyás, Kristóf
Nationality:	Hungarian
Date and place of birth:	February 1997, Dunaújváros, Hungary
Address	*Private*
Cell:	*Private*
Email:	78furu@gmail.com (primary), furuglyas.kristof@wigner.mta.hu (work)

Education

2007 - 2015 **Excellent**, *Széchenyi István Secondary Grammar School*, Graduated.

2015 - 2018 **Outstanding**, *Eötvös Loránd University*, Budapest, *Faculty Of Sciences: Physics BSc.*
IT Physicist Specialization, graduated

2018 - **In progress**, *Eötvös Loránd University*, Budapest, *Faculty Of Sciences: Physicist MSc.*
Scientific Data Analytics and Modeling Specialization

Bachelor's Thesis

Title (English)	*Research on Noisy Brainwaves with Eye-Tracking Methods*
Title (Hungarian)	*Zajba temetett agyi elektromos jelek vizsgálata szemmozgás-követéssel*
Language	Hungarian

Description The main idea behind the research was that modern commercial electronencephalographs had to draw line between widespread usability and precesion. During the time I measured the electromiograhic signals on the face (mainly around the foreahead and eyes) too. Later, with signal proccessing techniques I was able to distinguish different facial and eye movements.

Master's Thesis **(In progress)**

Title (English) *Research on the Functional Connectivity of the Brain*

Title (Hungarian) *Agyi funkcionális kapcsolatstruktúra elemzése*

Language English

Description Examining the functional connection of different brain areas under bimodal stimuli and investigating the possibility of conditional mismatch negativity.

Research Experience

2018 - **Intern**, *Department of Computational Sciences, Wigner Research Centre for Physics of the Hungarian Academy of Sciencies*, Budapest.
Just after the final exam I began to work at the Hungarian Academy of Sciences (HAS) where I took part in the Human Brain Project. The main aim of this project for our group was to model small networks in different brain areas. A poster about this work was presented at the Meeting of the Hungarian Neuroscience Society in 2019.

Language Skills

English C1, advanced level *Year: 2015*

Spanish conversational level *during secondary grammar school*

Computational Skills

Programming Languages Python3 (professional), C/C++ (advanced), Java (beginner), Octave (beginner), R (beginner)

Data Science Data Mining, Machine Learning, Neural Networks, Natural Language Processing, Network Science

Other Skills Jupyter Notebook, Bash, VIM, Github, PyCharm, HTML, Microsoft Visual Studio, Code Blocks, MySQL, CMake

Interests

Football I have been playing football since I was 8, but after I got applied to the university I continued my hobby only on an amateur level.

Teaching During weekends I teach children (aged 10-17) mathematics, physics, informatics and English languange.

Social activities
Since 2018 I have been the secretary of the Hungarian Association of Physics Students. This organization provides many scientific programmes for students all across Hungary including meetups, tours to CERN, student-exchange programmes, etc.

Conferences

ICPS
International Conference for Physics Students, Cologne, Germany, 2019. The International Conference of Physics Students (ICPS) is an annual meeting of physics students from all over the world and the biggest and most important event of IAPS (International Association of Physics Students).

MITT
Conference of the Hungarian Neuroscience Society, Debrecen, Hungary, 2019.