

# NORBERT MAJUBU



## KEY ASPECTS

- Quantitative, qualitative and multidisciplinary knowledge and experience, ranging from mathematics to biology, through experimental and theoretical fields.
- Trained internationally.
- Agile learner.
- Passionate thinker and dreamer.

## EDUCATION

2014 Sept- **ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL)**, Switzerland

2016 June *School of Life Sciences*

**Life Sciences and Technology M.Sc.**

Orientation: **Neuroscience and Neuroengineering.** ●

- Exchange at **HARVARD UNIVERSITY MEDICAL SCHOOL**, Cambridge, MA, USA. ●  
2-semester master's project as part of:  
Bertarelli Fellowship in Translational Neuroengineering 2015-16,  
Subject: Auditory rehabilitation engineering.
- Recipient of the "Excellence Fellowship" of EPFL for the 2014-15 academic year, financed by Novartis. ●
- Member of the Model United Nations Association of EPFL.

2010 Sept- **PÁZMÁNY PÉTER CATHOLIC UNIVERSITY (PPCU)**, Budapest, Hungary

2014 Jan *Faculty of Information Technology and Bionics*

**Molecular Bionics Engineering B.Sc.**

- Interdisciplinary program in computer technology and life sciences.
- Received an honors degree - GPA: 4.91 / 5.0, equivalent of 98.2 %.
- Teaching assistant in: "Mathematical analysis" and "Genetics and cell biology".
- Member of "Animator Community" (subunit of the Student Council).

2005 Sept- **KARINTHY FRIGYES BILINGUAL HIGH SCHOOL**, Budapest, Hungary

2010 Jun *Bilingual Faculty*

- Learned mathematics, geography, history, biology and physics in English.

## PROFESSIONAL EXPERIENCE

2015 Jul- **SYNETIQ LTD**, Budapest, Hungary ●

2015 Aug **Data Science and Research Intern**

- Conducted two projects in the engineering side of neuromarketing:
  - Comparison of two different metrics for analyzing bodily signals.
  - Quantitative comparison of two mobile EEG devices.

## RESEARCH EXPERIENCE AND INTERNSHIPS

2012- **INSTITUTE OF EXPERIMENTAL MEDICINE, HAS**, Budapest, Hungary

2014 *Diploma thesis work*

- Subject: *In silico* modeling of CA1 pyramidal neurons.
- Results: diploma thesis, link to download: ●

2013 **KAROLINSKA INSTITUTE**, Stockholm, Sweden

*Summer* **Amgen Scholars Program 2013:** ●

- Subject: Ubiquitination
- Presented results at European Amgen Symposium at Clare College, Cambridge.

2012 **ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE**, Switzerland

Summer School of Life Sciences,

Summer Research Program 2012: ●

- Subject: Revealing the ultrastructure of centriole.
- Third author publication based on gained data: *Guichard, P. et al. Native architecture of the centriole proximal region reveals features underlying its 9-fold radial symmetry. Curr. Biol. 23, 1620–1628 (2013).* ●

## AWARDS AND SCHOLARSHIPS

2015 Feb. Awarded a Bertarelli Fellowship in Translational Neuroengineering 2015-16.

2014 Sep. Recipient of the Excellence Fellowship of EPFL 2014-15, financed by Novartis.

2014 Jan. Received distinction for the BSc degree (Honors degree), PPCU FITB.

2013 Oct. Excellence Scholarship of Faculty, PPCU FITB.

2013 Apr. Awarded a place at the Amgen Scholars Program, Karolinska Inst.

2012 Oct. Awarded an academic trip to the EMBL, Heidelberg, Germany.

2012 Mar. Excellence Scholarship of Faculty, PPCU FITB.

2012 Feb. Awarded a place at the EPFL Summer Research Program.

## PROFESSIONAL SKILLS,

### IT

- Programming languages:  
Experienced in: C++, Matlab and NEURON;  
Have been using: Python, PERL, SQL, VHDL, Java.
- Engineering experience: MS Visual Studio, Codeblocks, Xilinx IDE, Matlab / Simulink, LabVIEW, GitHub.
- Research tool exp.: Spartan, Image processors, Maestro, Pymol, SQL Developer.

### “WETLAB”

- Microscopy: AFM, STM, Cryo-electron microscopy.
- Analytical technics: SDS-PAGE, western blot, qPCR, QCM.
- Expression technics: protein and RNA purification, bacterial transformation, maintenance of *C. elegans* cultures.

### LANGUAGES

- English - Fluent spoken and written (IBT 106/120).
- French - A1.
- Hungarian - native speaker.

## MISCELLANEOUS

- Guest editor on [crastina.se](http://crastina.se), a blog edited for science communication. ●
- Have taken part in three Model United Nations Conferences home (Budapest, Hungary-2009/2010) and abroad (Leiden, Netherlands-2009).
- Playing basketball and volleyball, and a passionate juggler.

## PERSONAL INFORMATION AND CONTACT

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