

Melinda RÁCZ

PERSONAL INFORMATION

Date and place of birth: 7 May 1991, Kerepestarcsa (Hungary)

Address: H-2400, Dunaújváros, Petőfi Sándor u. 2344/4 hrsz.

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EDUCATION

Tertiary education:

PhD degree in neuroscience, Szentágotthai János Doctoral School of Neurosciences, Semmelweis University (2020–)

Program: Functional Neurosciences

Title of research project: Research and Design of Electrophysiological Data Acquisition Tools for Brain-Computer Interfaces. Supervisor: Dr Gergely Márton

MSc degree in electrical engineering, Faculty of Electrical Engineering and Informatics, Budapest University of Technology and Economics (2017–2020)

Diploma: excellent with highest honours (4.72)

Thesis title: Development of Brain-Computer Interfaces Using Deep Learning Methods

Supervisors: Dr Gergely Márton, Dr István Harmati

BSc degree in electrical engineering, Faculty of Electrical Engineering and Informatics, Budapest University of Technology and Economics (2011–2016)

Diploma: good (4.13)

Thesis title: Development of an Intelligent Process Model for Laboratory Practice

Supervisor: Dr György Pilászy

Secondary education: Waldorf Primary and Secondary School and Art Institution, Gödöllő (1998–2011)

PROFESSIONAL EXPERIENCE

Scientific administrator, Research Centre for Natural Sciences (2020–)

R&D fellow, Pázmány Péter Catholic University (2018–2020)

Software/hardware developer, D.E.Á.K. Irányítástechnikai Kft. (2016–2017)

TEACHING EXPERIENCE

Control Engineering, Teaching Assistant, BUTE-FEEL (2016)

SELECTED PUBLICATIONS

ORCID Id: 0000-0002-6166-7699

Melinda RÁCZ, Csaba LIBER, Erik NÉMETH, Richárd FIÁTH, János ROKAI, István HARMATI, István ULBERT, Gergely MÁRTON. Spike Detection and Sorting with Deep Learning. 2020. Journal of Neural Engineering, 17(1), 016038. IF: 4.55. DOI: <https://doi.org/10.1088/1741-2552/ab4896>

LANGUAGE SKILLS

Hungarian: native speaker

English: working proficiency, B2 complex language exam (2011)

MISCELLANEOUS SKILLS

Programming in C, C++, MATLAB, Python

Document editing in LaTeX or using Microsoft Word

Other software skills: Excel, PowerPoint, Gimp, Inkscape

Digital design using DipTrace or Protel/Altium

Manual soldering