

Gábor Orbán

ELECTRICAL ENGINEER

25 July, 1991

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Educational attainment

Doctor of Philosophy (PhD)

Budapest, Hungary

ÓBUDA UNIVERSITY, DOCTORAL SCHOOL ON MATERIALS SCIENCES AND TECHNOLOGIES

Feb. 2017 - In progress

- Development of polymer based biosensors
- Development of novel measuring methods in the field of neuroscience and dentistry

Electrical Engineer (MSc)

Budapest, Hungary

BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, FACULTY OF ELECTRICAL ENGINEERING AND INFORMATICS

Feb. 2015 - Jan. 2017

- Specialization of Microelectronics and Electronics Technology
- Subspecialization of Smart System Integration

Electrical Engineer (BSc)

Budapest, Hungary

BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, FACULTY OF ELECTRICAL ENGINEERING AND INFORMATICS

Sep. 2010 - Jan. 2015

- Specialization of Microelectronics

Hard skills

Engineering software CorelDRAW, Matlab, Autodesk Inventor, \LaTeX , MS Office, COMSOL Multiphysics

Language skills Hungarian (native), English (fluent), German (basic)

Professional experience

PhD student

Budapest, Hungary

EÖTVÖS LORÁND RESEARCH NETWORK, RESEARCH CENTRE FOR NATURAL SCIENCES, INSTITUTE OF COGNITIVE

Feb. 2017 - In progress

NEUROSCIENCE AND PSYCHOLOGY

- development of measuring methods in the field of neuroscience
- two-photon microscopy
- electrophysiology
- noise filtering
- *in vitro* and *in vivo* animal experiments

Research assistant

Budapest, Hungary

SEMMELWEIS UNIVERSITY, FACULTY OF DENTISTRY, DEPARTMENT OF ORAL DIAGNOSTICS

Nov. 2015 - In progress

- applied biomedical research
- observation of electrical parameters of human dentin
- realization of brand-new dentin recording method
- designing and developing of dental measuring system

Professional trainee

Budapest, Hungary

HUNGARIAN ACADEMY OF SCIENCES, RESEARCH CENTRE FOR NATURAL SCIENCES, INSTITUTE OF COGNITIVE

Summer of 2016

NEUROSCIENCE AND PSYCHOLOGY

- design of 3D measuring system
- simulation based on finite element method
- biomedical research

Professional trainee

Budapest, Hungary

HUNGARIAN ACADEMY OF SCIENCES, RESEARCH CENTRE FOR NATURAL SCIENCES, INSTITUTE OF TECHNICAL

Summer of 2013

PHYSICS AND MATERIALS SCIENCE

- designing of microelectrode systems for neuroscience
- utilization of polymer based MEMS technology
- LAYOUT design
- clean room processes
- *in vitro* and *in vivo* animal experiments

Honors & Awards

Óbuda University, Publication award

STUDENT PUBLICATION AWARD, PHD CATEGORY

2020

Semmelweis University Innovation Award

MOST INNOVATIVE RESEARCH

2020

- Development of dentin thickness measurement device

Semmelweis University Scientific and Innovation Fund

AWARDED

2019-2020

- Fundation of the Directorate of Innovation, Semmelweis University
- Development and validation of a novel measuring device for clinical dentistry

New National Excellence Program of the Ministry for Innovation and Technology

AWARDED

2019-2020

- Dosctoral student scholarship at the Óbuda University
- Field of research: Simultaneous electrophysiological recording and two-photon imaging

New National Excellence Program of the Ministry of Human Capacities

AWARDED

2018-2019

- Dosctoral student scholarship at the Óbuda University
- Field of research: Simultaneous electrophysiological recording and two-photon imaging

Hungarian National Scientific Students' Associations Conference

SPECIAL AWARD

2015

- ÓBUDA UNIVERSITY, Section of Technical Sciences
- Field of research: Development of polymer-based flexible microelectrode system

Scientific Students' Associations Conference

1ST PRICE

2014

- BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, Faculty of Electrical Engineering and Informatics
- Field of research: Development of polymer-based flexible microelectrode system

Scientific Students' Associations Conference

PRO PROGRESSIO FOUNDATION SPECIAL AWARD

2014

- BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, Faculty of Electrical Engineering and Informatics
- Field of research: Development of polymer-based flexible microelectrode system