

# Grand László Bálint

E-mail: grand@cogpsyphy.hu

## **PERSONAL**

Date of Birth: 01.01.1981

Citizenship: Hungarian

## **EDUCATION**

Pázmány Péter Catholic University, Interdisciplinary Doctoral School	2006 - 2010
University of Michigan, Biomedical Engineering Department (Visiting student)	2006 - 2007
Pázmány Péter Catholic University, Faculty of Information Technology (B.Sc. and M.Sc. in Electrical and Computer Engineering, Majors: Electrophysiology, Microelectronics)	2001 - 2006

## **WORK EXPERIENCE**

Research Assistant – Institute for Psychology of the Hungarian Academy of Sciences, Budapest 2007 -  
*Ph.D. thesis advisors: Dr. István Ulbert, Dr. George Karmos*

- Investigating event-related potentials in the cat auditory cortex during the natural sleep-wake cycle and anesthesia
- Developing and characterizing a novel silicon based extracellular multielectrode
- In-vivo characterization of 2D NeuroProbes silicon probes with biocompatible coatings

Visiting Ph.D. student – NeuroNexus Technologies & Neural Engineering Lab of U of M, Ann Arbor, USA 2006 - 2007  
Supervisors: Dr. Daryl Kipke, Dr. Rio Vetter, Dr. Jammie Hetke

- Getting acquainted with silicon and polyimide based extracellular multielectrodes
- Developing and characterizing a novel polyimide based Deep Brain Mapping Array (DBMA)
- Learning the surgical implantation techniques of neural probes

Research Intern – Institute for Psychology of the Hungarian Academy of Sciences, Budapest 2004 - 2006  
Supervisors: Dr. George Karmos, Dr. Istvan Ulbert

- Getting familiar with neural probes and neural signal processing
- Developing a Matlab based multifunctional software for multichannel time-frequency analysis
- Performing experiments with cats

Research Intern – Computer and Automation Research Institute of the Hungarian Academy of Sciences 2002 - 2003  
Subject: " Identification and tracking of similar objects through space and time with CNN-UM"  
Supervisor: Prof. Dr. Tamás Roska

- Learning about Cellular Neural Networks (CNN), their programming and different applications
- Developing novel target tracking algorithms for CNN-UM

## **AWARDS**

Federation of European Neuroscience PENS Sleep Training Award	2009
Professional Internship Award of the Hungarian-American Enterprise Scholarship Fund	2006
3 <sup>rd</sup> place on the XXVIII. Hungarian Scientific Student Conference (OTDK)	2006
1 <sup>st</sup> place on the Scientific Student Conference of the Peter Pazmany Catholic University (TDK)	2006
Recipient of the Bolyai prize for students (National Scientific Competition for Junior Researchers)	2003

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## **PROFESSIONAL CONFERENCES, SUMMER SCHOOLS**

IBRO International Workshop	Pecs, Hungary	2010
SFN Neuroscience meeting	Chicago, USA	2009
PENS practical training on sleep research and sleep medicine	Lyon, France	2009
Complex dynamics in large-scale interacting brain networks	Dresden, Germany	2010
PENS Summer School on sleep research and sleep medicine	Bertinoro, Italy	2009
IBRO International Workshop	Budapest, Hungary	2009
Neural Interfaces Conference	Cleveland, USA	2008
6th Forum of European Neuroscience	Geneva, Switzerland	2008
Implantable Neuroprosthetics: Technologies and Techniques (Summit meeting)	Ann Arbor, USA	2007
SFN Neuroscience	Atlanta, USA	2006
5th Forum of European Neuroscience	Vienna, Austria	2006
Biomedical Sciences and Technology Summer School	Groeningen, The Netherlands	2002

## **OTHER SKILLS**

Computer	Programming skills (Matlab, C++), MS Office, Photoshop, CorelDraw etc.
Languages	English (fluent), German (basic), Hungarian (native)

Budapest, 07/26/2010