

DR. ANDOR D. MAGONY

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WORK EXPERIENCE

2014 – 2016	Research Associate - University of Birmingham, Birmingham, United Kingdom
2011 – 2014	Research Fellow - University of Birmingham, Birmingham, United Kingdom
2012 Spring	Visiting Scientist, Harvard Work Experience Scholarship, Harvard University, Boston, USA
2007 – 2008	Research Assistant and Software Developer - Institute for Psychology, Hungarian Academy of Sciences, Budapest, Hungary
2006 Summer	Application Quality Assurance Manager - Faculty of Information Technology, Pázmány Péter Catholic University, Budapest, Hungary

EDUCATION

2008 – 2015	PhD in Computational Neuroscience - University of Birmingham, Birmingham, United Kingdom
2001 – 2007	MSc in Information Technology, Bioinformatics and Computer Science Faculty of Information Technology, Pázmány Péter Catholic University, Budapest, Hungary
1999 – 2001	English Language and Computer Science Teacher Training College, Eötvös Loránd University, Budapest, Hungary

TECHNICAL SKILLS AND COMPETENCES

IT	Analytical, mathematical and information-theoretical methods, abstraction skills, state-of-the-art data processing techniques, data mining, supercomputing, big data.
Programming	Matlab, C/C++/C#, Java, SQL Database Design, Agile Methodology (Extreme Programming, SCRUM), UML, Formal Specification.
Neuroscience	Extensive acute and chronic surgical skills, animal handling, <i>in vivo</i> recording in anaesthetised and awake animals (cats and rodents) using multichannel electrodes, tissue processing for histology, experiment design. Licensed surgical skills by the UK Home Office.
Other	Mechanical engineering, customized electrode and microdrive fabrication, teaching and project supervision, proof-reading, high level of creativity and abstraction, versatility and resilience, trainability and enthusiasm for development and improvement.

RECENT PUBLICATIONS

'Development of a miniature microdrive recording system for multisite multichannel recording from rodent brain', Magony A. and Sik A., *OA Neurosciences*, 2014 Mar

'The role of a 4 Hz activity and the theta oscillation in the amygdalo-prefrontal circuitry during Pavlovian conditioning in rats', Magony A. and Sik A., *Brain Structure & Function*, In Press

'Wave Solution - A novel analytical toolbox for electro-physiological signal processing and analysis', Magony A, Csercsa R, Ulbert I., Sik A., *Computers in Biology and Medicine*, In Press

'NMDA receptor hypofunction phase couples independent γ -oscillations in the rat visual cortex', Anver H, Ward PD, Magony A, Vreugdenhil M. *Neuropsychopharmacology*, 2011 Jan

'Laminar analysis of slow wave activity in humans', Csercsa R, Dombovári B, Fabó D, Wittner L, Magony A, Halász P, Freund TF, Karmos G, Ulbert I., *Brain*. 2010 Sep

'High-frequency gamma oscillations coexist with low-frequency gamma oscillations in the rat visual cortex *in vitro*', Oke OO, Magony A, Anver H, Ward PD, Jiruska P, Jefferys JG, Vreugdenhil M., *Eur J Neurosci*. 2010 Apr

TEACHING EXPERIENCE

2011 – 2014	Biomedical Sciences Student Project Supervision - Neuroscience, University of Birmingham, UK
2006 – 2008	Demonstrator of 'Software Technology and Software Engineering' and 'Electrophysiological Recordings and Prostheses', Faculty of Information Technology, Pázmány Péter Catholic University, Budapest, Hungary

ATTENDED CONFERENCES WITH POSTER PUBLICATIONS

2013: Society for Neuroscience, Annual Meeting, San Diego, CA, USA
2013: The British Neuroscience Association Meeting, London, UK
2011: The British Neuroscience Association Meeting, Harrogate, UK

2008: FENS Forum, Geneva, Switzerland
2007: Hungarian Society of Clinical Neurophysiology, Pécs, Hungary
2006: FENS Forum, Vienna, Austria

LANGUAGES

- Hungarian (bilingual proficiency)
- English (bilingual proficiency)
- German (basic)
- French (basic)