

## Brief CV: Professor Yury Shtyrov

### *Education*

1997–2000: University of Helsinki, Finland. PhD thesis in Cognitive Neuroscience: New aspects of the cerebral functional asymmetry in speech processing as revealed by auditory cortex evoked magnetic fields (supervisors: Dr. T. Kujala, Prof. R. Näätänen; opponent: Prof. T. Picton).

1989–1994: St. Petersburg University, Russia. Diploma in Neurophysiology.

### *Positions*

Since 2013: Professor, PI of Magnetoencephalography Group. Centre for Functionally Intergrative Neuroscience (CFIN), Institute for Clinical Medicine, Aarhus University, Denmark

2007–2013: Senior Scientist (PI). MRC Cognition and Brain Sciences Unit. Cambridge, United Kingdom

2011–2012: Director of the Cognitive Brain Research Unit, Professor. Institute of Behavioural Sciences, University of Helsinki, Finland

2003–2007: Senior Investigator Scientist. MRC Cognition and Brain Sciences Unit. Cambridge, UK

2000–2003: Research Associate (Post-Doctoral Research Scientist). MRC Cognition and Brain Sciences Unit, Cambridge, UK

1997–2000: Researcher. Cognitive Brain Research Unit, University of Helsinki, Finland

1998–2001: Linguist and Project Administrator. Lingsoft Inc, Helsinki, Finland

1996–1997: Project Manager. AudiTech Ltd Speech Research and Technology Company, St. Petersburg, Russia

1994–1997: Junior Researcher. Department of Speech Physiology and Pathology, St. Petersburg Research Institute for Otorhinolaryngology and Speech, Russia

1992–1994: Senior Research Assistant. Laboratory for Sensorimotor Systems Physiology, St. Petersburg University, Russia

### *Teaching and supervision*

Supervising individual students' research work (PhD, MA/MSc theses, internship etc.) at Cambridge University, Helsinki University, St. Petersburg University etc. 10 theses complete to date, 6 ongoing.

Teaching a variety of courses at graduate and postgraduate level.

Supervising research work of large international teams.

### *Other key facts*

ca. €7mln grant record (MRC, EU, Lundbeckfonden, Danish Ind Res Found'n, P220, 5-100)

over 80 invited lectures, presentations and talks

1 patent

media engagements, interviews, public outreach activities  
organising international meetings and symposia  
reviewing for multiple international journals and funding bodies  
PhD thesis examination

### *Publications*

Over 80 peer-reviewed articles in high impact journals in brain research such as *PNAS*, *Nature Comms*, *Cerebral Cortex*, *Journal of Neuroscience*; over 200 meetings proceedings; 6 book chapters; 2 edited volumes; 1 patent. >5000 citations; h-index=38 (Google Scholar).

### *10 representative publications*

- Near-instant automatic access to visually presented words in the human neocortex: neuromagnetic evidence. **Shtyrov Y.** & MacGregor L. *Nature Scientific Reports*, 6:26558, DOI: 10.1038/srep26558, 2016
- Automatic ultra-rapid activation and inhibition of cortical motor systems in spoken word comprehension. **Shtyrov Y** et al. *Proceeding of National Academy of Sciences (PNAS)* 111, 18, p. E1918-23, 2014
- Ultra-rapid access to words in the brain: Neuromagnetic evidence. MacGregor L, Pulvermüller F, van Casteren M, **Shtyrov Y.** *Nature Communications*, 3:711, DOI: 10.1038/ncomms1715, 2012
- Rapid cortical plasticity underlying novel word learning. **Shtyrov Y** et al. *Journal of Neuroscience*, 30(50):16864-7, 2010
- Memory traces for spoken words in the brain as revealed by the haemodynamic correlate of the mismatch negativity (MMN). **Shtyrov Y** et al, *Cerebral Cortex* 18(1):29-37, 2008
- Language Outside The Focus Of Attention: The Mismatch Negativity As An Objective Tool For Studying Higher Language Functions. Pulvermüller F. & **Shtyrov Y.** *Progress in Neurobiology*, 79(1), 49-71, 2006
- Motor cortex maps articulatory features of speech sounds. Pulvermüller F, Huss M, ... & **Shtyrov Y.** *Proceeding of National Academy of Sciences (PNAS)*, 103(20), 7865-7870, 2006
- Discrimination of speech and of complex nonspeech sounds of different temporal structure in the left and right cerebral hemispheres. **Shtyrov Y**, Kujala T, Palva S, Ilmoniemi R, Näätänen R. *NeuroImage* 12:6, 657-663, 2000
- Grammar processing outside the focus of attention: an MEG study. **Shtyrov Y** et al. *Journal of Cognitive Neuroscience*, 15:8, 1195-1206, 2003
- Brain Basis of Words, Constructions and Grammar. Pulvermüller F, Cappelle B & **Shtyrov, Y.** In: *The Oxford Handbook of Construction Grammar*. Oxford University Press, pp. 397-418, 2013.