

# Short biography

## **Lauri Nummenmaa, PhD**

Associate professor in Modeling and medical image processing at Turku PET Centre and Department of Psychology, University of Turku, Finland



Born 27.04.1977

Married to Dr Minna Nummenmaa

Children Kerttu (\*2006) and Lotta (\*2008)

## **Biographical information**

I did my undergraduate studies majoring in psychology at University of Turku, Finland. I defended my PhD on neurocognitive mechanisms of social attention at University of Turku in 2006. After that, I worked as a post-doc at the MRC CBU in Cambridge, UK studying neural mechanisms of face perception in Andy Calder's group. I returned to Finland in 2008, to work as Academy of Finland junior fellow and subsequently as senior fellow at Turku Pet Center and Aalto University. After a four-year appointment as Assistant professor in cognitive neuroscience at Aalto University, I returned to the University of Turku with my laboratory.

Currently I lead the Human Emotion Systems laboratory at Turku PET Centre and Department of Psychology, University of Turku. Our group studies functional and molecular neural mechanisms of human emotions and social interaction in complex, life-like settings with magnetic resonance imaging, positron emission tomography, magneto- and electroencephalography and behavioural techniques. I have written over 100 scientific articles on brain basis of emotions and social cognition, and acquired more than 3.5M€ grant money for our group. Currently our research is funded by the European Research Council and the Academy of Finland.

## **Representative publications**

- Nummenmaa, L.**, Glerean, E., Hari, R., & Hietanen, J.K. (2014). Bodily maps of emotions. *Proceedings of the National Academy of Sciences of the United States of America*, *111*, 646-651.
- Nummenmaa, L.**, Smirnov, D., Lahnakoski, J., Glerean, E., Jääskeläinen, I.P., Sams, M., & Hari, R. (2014). Mental action simulation synchronizes action-observation circuits across individuals. *The Journal of Neuroscience*, *34*, 748 – 757.
- Nummenmaa, L.**, Heikkilä, H., Glerean, E., Gotsopoulos, A., Hari, R., & Sams, M. (2014). Emotional speech synchronizes brains across listeners and engages large-scale dynamic brain networks. *NeuroImage*, *120*, 498-509.
- Nummenmaa, L.**, Glerean, E., Viinikainen, M., Jääskeläinen, I.P., Hari, R., & Sams, M. (2012) Emotions promote social interaction by synchronizing brain activity across individuals. *Proceedings of the National Academy of Sciences of the United States of America*, *109*, 9599–9604.
- Nummenmaa, L.**, & Calder, A.J. (2009). Neural mechanisms of social attention. *Trends in Cognitive Sciences*, *13*(3), 135-143.