

Hjalmar Turesson

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Education

Ph.D. in Neuroscience September 2006 – May 2011
Princeton University, Princeton, New Jersey, USA.

M.Sc. in Neural & Behavioural Sciences September 2003 – September 2005
International Max Planck Research School, Tübingen, Germany.

B.Sc. in Biology August 1999 – June 2003
Lund University, Lund, Sweden.

Academic Appointments

Postdoctoral Researcher May 2016 – June 2019
York University, Toronto, Canada.

Postdoctoral Researcher April 2013 – April 2016
Universidade Federal do Rio Grande do Norte, Natal, Brazil.

Postdoctoral Researcher August 2011 – March 2013
Rutgers State University, Newark, USA.

Research Experience

Postdoctoral Research August 2018 – June 2019
Schulich School of Business
York University, Toronto, Canada
Supervised by Prof. Henry M. Kim

Postdoctoral Research May 2016 – August 2018
Department of Psychology
York University, Toronto, Canada
Supervised by Dr. Kari L. Hoffman.

- Postdoctoral Research* April 2013 – April 2016
 Instituto do Cérebro
 Universidade Federal do Rio Grande do Norte, Natal, Brazil.
 Supervised by Dr. Sidarta Ribeiro.
- Postdoctoral Research* August 2011 – March 2013
 Center for Molecular and Behavioral Neuroscience
 Rutgers State University, Newark, USA.
 Supervised by Dr. Denis Paré.
- Ph.D Project* September 2006 – June 2011
 Princeton University, Princeton, New Jersey, USA.
 Title: "Temporal Modulations of Primate Vocalizations".
 Supervised by Dr. Asif A. Ghazanfar & Dr. Prof. Charles Gross.
- Masters Thesis* June – September 2005
 Max Planck for Biological Cybernetics, Tübingen, Germany.
 Title: "Extremely Short Latency Responses in STS and Their Implications for Visual Pathways and Neural Coding".
 Supervised by Dr. Kari L. Hoffman & Prof. Dr. Nikos K. Logothetis.

Teaching Experience

- MBAN 6500, Artificial Intelligence I* September 2018 – December 2018
 Schulich School of Business, York University, Toronto, Canada.
- MBAN 6120, Data Science II* September 2018 – December 2018
 Schulich School of Business, York University, Toronto, Canada.
- Psychology 101, Introduction to Psychology* September 2009 – May 2011
 Princeton University, Princeton, New Jersey, USA.

Publications

Articles

- Saxena S, Farag H, **Turesson HK**, Kim H (2019) Blockchain based grid operation services for transactive energy systems. *Submitted*
- Turesson HK**, Laskowski M, Roatis A, Kim H (2019) Privacy-preserving blockchain mining: Sybil-resistance by Proof-of-Useful-Work. *Submitted*
- Turesson HK**, Ribeiro Conceicao TB, Ribeiro S (2016) Head and gaze tracking of unrestrained marmosets. *bioRxiv* 079566
- Turesson HK**, Ribeiro S, Pereira DR, Papa JP, Albuquerque VHC (2016) Machine learning algorithms for automatic classification of marmoset vocalizations. *PLoS ONE* 11: e0163041
- Rodríguez-Sierra OE, Goswami S, **Turesson HK**, Paré D (2016) Altered responsiveness of BNST and amygdala neurons in trauma-induced anxiety *Translational Psychiatry* 6: e857.
- Turesson HK** & Ribeiro, Sidarta (2015) Can vocal conditioning trigger a semiotic ratchet in marmosets? *Frontiers in Psychology*, 6: 1519.

Rodríguez-Sierra OE, **Turesson HK** & Paré D (2013) Contrasting distribution of physiological cell types in different regions of the bed nucleus of the stria terminalis. *Journal of Neurophysiology*, 110: 2037-2049.

Turesson HK, Rodríguez-Sierra OE & Paré D (2013) Intrinsic connections in the anterior part of the bed nucleus of the stria terminalis. *Journal of Neurophysiology*, 109: 2438-2450.

Turesson HK, Logothetis NK & Hoffman KL (2012) Category-selective phase coding in the superior temporal sulcus. *Proceedings of the National Academy of Sciences of the United States of America*, 109: 19438-19443.

Turesson HK & Ghazanfar AA (2011) Statistical learning of social signals and its implications for the social brain hypothesis. *Interaction Studies*, 12: 397-417.

Chandrasekaran C, **Turesson HK**, Brown CH & Ghazanfar AA (2010) The influence of natural scene dynamics on auditory cortical activity. *Journal of Neuroscience*, 30: 13919-13931.

Ghazanfar AA, **Turesson HK**, Maier JX, van Dinther R, Patterson RD & Logothetis NK (2007) Vocal tract resonances as indexical cues in rhesus monkeys. *Current Biology*, 17: 425-430.

Conference Abstracts

Turesson HK, Ribeiro Conceção TB & Gomes Ribeiro ST (2015) Learning of novel vocal usage by the common marmoset. *International Brain Research Organization*, Rio de Janeiro, Brazil.

Turesson HK, Rodríguez-Sierra OE & Paré D (2012) Intrinsic connectivity of the bed nucleus of the stria terminalis (BNST) in rats. *Annual Meeting of the Society for Neuroscience*, New Orleans, USA.

Rodríguez-Sierra OE, **Turesson HK** & Paré D (2012) Physiological properties of neurons in four regions of the bed nucleus of the stria terminalis (BNST). *Annual Meeting of the Society for Neuroscience*, New Orleans, USA.

Goswami S, **Turesson HK** & Paré D (2012) *Ex vivo* analysis of alterations in the physiology of basolateral amygdala neurons in a rat model of PTSD. *Annual Meeting of the Society for Neuroscience*, New Orleans, USA.

Turesson HK, Chandrasekaran C & Ghazanfar AA (2009) The influence of theta (4-8Hz) structure in vocalizations on neural activity in auditory cortex. *Cosyne 2009*, Salt Lake City, UT, USA.

Hoffman KL, **Turesson HK**, Ghazanfar AA & Logothetis NK (2009) Phase coding of faces and objects in the superior temporal sulcus. *Cosyne 2009*, Salt Lake City, UT, USA.

Turesson H & Schüz A (2006) Cortico-Cortical Connectivity: Measurements on distant axonal arbores of pyramidal cells in the mouse neocortex. *9th Tübingen Perception Conference*, Tübingen, Germany.

Book Chapters

Turesson HK & Ghazanfar AA (2009) Animal vocalizations. In *Oxford Companion to Emotion and the Affective Sciences*. Edited by David Sander & Klaus R. Scherer. Oxford University Press, Oxford, UK.

Ghazanfar AA, Maier JX & **Turesson HK** (2007) Multisensory communication and cognition in non-human primates. In *Comparative Social Cognition*. Edited by Shigeru Watanabe, Takeo Tsujii & Julian Keenan. Keio University Press, Tokyo, Japan.

Commentaries

Ghazanfar AA & **Turesson HK** (2008) Speech production: how does a word feel? *Current Biology*, 18: R1142-R1144.

Ghazanfar AA & **Turesson HK** (2008) How robots will teach us how the brain works. Review of "How the body shapes the way we think" by Rolf Pfeiffer & Josh Bongard. *Nature Neuroscience*, 11: 3.

Language Skills

Swedish – native

English – fluent

Portuguese – satisfactory

Programming

Python, Matlab, R, CUDA & C/C++

Fellowships

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| <i>Bolsa de Atração de Jovens Talentos</i> CNPq, Brazil. | 2013 – 2016 |
| <i>Stipend for Graduate Studies at Princeton University</i> Carl Jönssons Understödsstiftelse II, Malmö, Sweden. | 2008 |
| <i>Stipend for Electrophysiological Investigations of Statistical Learning</i> Stiftelsen Hierta-Retzius Stipendiefond, The Royal Swedish Academy of Sciences, Sweden. | 2007 |
| <i>First-Year Fellowship in the Sciences and Engineering</i> Princeton University, Princeton, New Jersey, USA. | 2006 |
| <i>Stipend for Graduate Studies at Princeton University</i> Carl Erik Levins Stiftelse, Sweden. | 2006 |
| <i>Stipend for Specialization in Cognitive Neurobiology</i> Carl Erik Levins Stiftelse, Sweden. | 2004 |
| <i>Stipend for International Students</i> International Max Planck Research School, Tübingen, Germany. | 2003 – 2005 |

References

Kari L. Hoffman, Associate Professor, Vanderbilt University
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 Nashville, TN 37240-7817
 USA
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Newark, New Jersey 07102
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