

Thomas Funck

Curriculum Vitae

Education

- 2014– **PhD Neuroscience**, *McGill University*, Montreal, *GPA – 3.88.*
2011–2013 **MSc Neuroscience**, *McGill University*, Montreal, *GPA – 4.0.*
2006–2010 **BA Philosophy**, *McGill University*, Montreal, *GPA – 3.6.*
First Class Honours

PhD Thesis

- Title *Measuring neuronal density in the living brain with high-resolution PET*
Supervisors Alexander Thiel, MD, PhD, and Alan C. Evans, PhD

Masters Thesis

- Title *Partial-volume correction for high-resolution positron emission tomography using cortical surface information*
Supervisors Professor Alexander Thiel, MD, PhD

Teaching Experience

- 2015-2018 **Teaching assistant**, *INDS 212: Human Behaviour*, McGill University, Neuroanatomy and human brain dissection class for medical students.
2017-2018 **Teaching assistant**, *SCSD 638: Neurolinguistics*, McGill University, Neuroanatomy workshop.

Awards

- 2014 1st Place Poster Award – Society for Nuclear Medicine and Molecular Imaging
2016 LDI-TD Bank Studentship - 10,000\$
2017 Jeanne Timmins Costello Fellowship - 10,000\$
2018 Best Poster Nomination – Society for Nuclear Medicine and Molecular Imaging
2018 Ann and Richard Sievers Award - 25,000\$

Publications

- 2014 Funck T, Paquette C, Evans A, Thiel A. Surface-based partial-volume correction for high-resolution PET. *Neuroimage*. 2014. 102,674-687

- 2015 Schirmacher R, Dea M, Heiss WD, Kostikov A, *Funck T, Quessy S, Bedell B, Dancause N and Thiel A. Which aspects of stroke do animal models capture? A multitracers micro-PET study of focal ischemia. *Cerebrovascular Disease*. 2015. 41(3-4),139-4.
- 2016 Pomares, F, Funck, T., Roy, S., Daigle-Martel, A., Ceko, M., Narayanan, S., Araujo, D., Thiel, A., Stikov, N., Fitzcharles, M., Schweinhardt, P. Multimodal brain imaging indicates distinct origin of altered regional grey matter in chronic pain. *Journal of Neuroscience*
- 2017 Funck, T. Al-Kuwaiti, M., Lepage, C., Zepper, P., Minuk, J., Schipper, H.M., Evans, A.C., Thiel. Assessing neuronal density in peri-infarct cortex with PET: effects of cortical topology and partial volume correction. *Human Brain Mapping*
- 2018 Funck, T., Larcher, K., Toussaint, P.J., Evans, A.C., Thiel., APPIAN: Automated Pipeline for PET Image Analysis. *Frontiers in Neuroinformatics* 12, 64.

Conference Abstracts

- 2012 Funck T, Zepper P, Evans A, Thiel A. Cortical Thickness-Based Partial Volume Correction for High Resolution PET. In: *Organization for Human Brain Mapping*. Beijing
- 2012 Zepper P, Funck T, la Fougere C, Kostikov A, Schirmacher R, Thiel A. Imaging delayed cell death in subacute stroke with high-resolution 18F-Flumazenil. *Soc Nucl Med Annu Meet Abstr*. 2012;53(Supplement 1):37.
- 2013 Funck T, Evans A, Thiel A. Cortical surface-based partial volume correction for high-resolution brain PET images. *Soc Nucl Med Annu Meet Abstr*. 2013;54(Supplement 2):2064
- 2014 Funck T, Paquette C, Evans A, Thiel A. Effect of partial-volume correction on binding potential in high-resolution PET. *J Nucl Med*. 2014;55(Supplement 1):2031
- 2014 Paquette C, Funck T, Sidel M, Melmed C, Monchi O, Thiel A. Up-regulation of cortical GABA-A receptors in idiopathic Parkinson's syndrome with dyskinesia. *J Nucl Med*. 55(Supplement 1):1828
- 2015 Funck T, Al-kuwaiti M, Lepage C, Zepper P, Evans A, Thiel A. Surface-based modelling of molecular imaging markers in peri-infarct cortex. In: *XXVIIth International Symposium on Cerebral Blood Flow, Metabolism and Function*.; 2015.
- 2016 Funck T, Al-Kuwaiti M, Schipper J, Lepage C, Evans AC, Thiel A. Measuring selective neuronal loss with high resolution PET. In: *Organization for Human Brain Mapping*. Geneva.

Computer skills

Basic	Haskell
Intermediate	Matlab, Linux, R
Advanced	C, Python, Bash

Languages

English **Fluent**

French **Fluent**