

Chris FOULON

PhD

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Nationality: French

Career Summary

- 2018 – now **Postdoc**, *Development of novel computational analysis and experimental techniques for determining how brain function and structure are impacted by mental illness and development*, Department of Diagnostic Medicine, The University of Texas at Austin, Dell Medical School, Supervisor: Cameron Craddock, Computational Neuroimaging Laboratory.
- 2015 – 2018 **PhD in Neuroscience**, *Implementing advanced Neo-Associationist analyses of the brain*, Inserm U1127, ED3C, Supervisor: Michel Thiebaut de Schotten, Brain Connectivity Behaviour Lab.
Funded by ANR/FRM
- 2013 – 2015 **Master's degree in Theoretical Computer Science and Implementation**, University of Rouen.
- 2009 – 2013 **Bachelor of Science in Computer Science**, University of Rouen.

Publications

Foulon C, Cerliani L, Kinkingnehun S, Levy R, Rosso C, Urbanski M, Volle E, and Thiebaut de Schotten M. Advanced lesion symptom mapping analyses and implementation as bcbtoolkit. *GigaScience*, 2018.

Thiebaut de Schotten M and **Foulon C**. The rise of a new associationist school for lesion-symptom mapping. *Brain*, 141(1):2–4, 2018.

Bendetowicz D, Urbanski M, Garcin B, **Foulon C**, Levy R, Bréchemier ML, Rosso C, Thiebaut de Schotten M, and Volle E. Two critical brain networks for generation and combination of remote associations. *Brain*, 141(1):217–233, 2018.

Urbanski M, Bréchemier ML, Garcin B, Bendetowicz D, **Foulon C**, Thiebaut de Schotten M, Rosso C, Clarençon F, Dupont S, Pradat P, Labeyrie MA, Levy R, and Volle E. Reasoning by analogy requires the left frontal pole: lesion-deficit mapping and clinical implications. *Brain*, 139:1783–1799, 2016.

Grants

- 2017 **International Neuroinformatics Coordinating Facility (INCF) project grant**,
Project: Connectivity-based brain parcellation toolkit, 2900€.
- 2016 **Naturalia & Biologia travel grant**, 1170€.

Visiting Position

- 2017 - 2 months VISITING RESEARCH AT MAX PLANCK INSTITUTE FOR HUMAN COGNITIVE AND BRAIN SCIENCES OF LEIPZIG, *Development of whole brain parcellation methods based on structural and functional connectivity with Daniel Margulies, head of the Max Planck Research Group Neuroanatomy & Connectivity*.

Workshop Organisations

- 2018 BRAINHACK PARIS: GLOBAL EDITION, *about 30 participants*, During which I animated a workshop: Python neuroimaging beginners tutorial.
www.bcblab.com
- 2018 BRAINHACK PARIS: ANATOMY, *about 20 participants*, During which I animated a workshop: Python Workshop for beginners.
www.bcblab.com
- 2017 BRAINHACK LONDON: CLINICAL NEUROANATOMY, *about 15 participants*, During which I animated a workshop: BCBtoolkit: Open software for lesion data analyses.
www.brainhacklondon.eu
- 2017 BRAINHACK PARIS: BRAIN LESIONS, *about 40 participants*.
neuroanatomy.github.io/events/brainhack-lesions
- 2017 BRAINHACK PARIS: GLOBAL EDITION, *about 40 participants*.
www.brainhack.org/global2017

- 2016 BRAINHACK PARIS: ANATOMY, *about 40 participants*.
neuroanatomy.github.io/events/brainhack
- 2016 BRAINHACK PARIS, *about 70 participants*.
www.brainhack.org

Presentations/Posters

- 2018 ISMRM, *Power Pitch: Advanced lesion symptom mapping analyses and implementation as BCBtoolkit*, Paris, France.
- 2017 6TH SCIENTIFIC MEETING OF THE FEDERATION OF THE EUROPEAN SOCIETIES OF NEUROPSYCHOLOGY, *Poster: Advanced lesion symptom mapping analyses and implementation as BCBtoolkit*, Maastricht, The Netherlands.
- 2017 OHBM, *Poster: Think outside the box: novel approaches to assess distant lesion effect in the brain*, Vancouver, Canada.
- 2016 OHBM, *Poster: Disconnectome maps: a new approach to assess long range disconnections induced by focal brain lesion*, Geneva, Switzerland.

Membership to Scientific Societies

- 2015 – now **Funding member**, Brain Connectivity Behaviour Group (BCBlab).
- 2015 – now **Member**, Organization for Human Brain Mapping (OHBM).
- 2017 – now **Member**, Member, International Society for Magnetic Resonance in Medicine (ISMRM).

Journal Reviewer

Communications Biology
NeuroImage

Training

- 2018 WORKSHOP: MARIE SKLODOWSKA-CURIE INDIVIDUAL FELLOWSHIPS TRAINING.
1 day
- 2017 WORKSHOP: SUCCESSFUL GRANT WRITING.
3 days
- 2017 CAJAL COURSE CONNECTOMICS: FROM MICRO- TO MESO- AND MACRO-SCALES, *An intensive course dedicated to connectomics, covering most of the imaging and analyses techniques to measure the connections from micro to macro scales*.
3 weeks
- 2017 OHBM EDUCATIONAL COURSE: BRAIN PARCELLATIONS AND FUNCTIONAL TERRITORIES.
half a day
- 2017 OHBM EDUCATIONAL COURSE: TAKING CONNECTIVITY TO A SKEPTICAL FUTURE: CHALLENGES, TOOLS AND TECHNIQUES.
half a day
- 2016 STATISTICS COURSES FOR NEUROSCIENTISTS BY HERVÉ ABDI, *Training course on statistical techniques to analyze the structure of large datasets as found in Genomics, brain imaging, and sensory evaluation*.
1 week
- 2016 OHBM EDUCATIONAL COURSE: TOOLS TO PARCELLATE THE BRAIN AND ITS RELATIONSHIP TO FUNCTION.
half a day
- 2016 OHBM EDUCATIONAL COURSE: GRAPH THEORETIC MODELS OF BRAIN NETWORKS.
half a day

Computer Knowledges

- Neuroimaging software C-PAC, Nipype, ANTs, MRtrix, FSL
- Programming languages Python, Java, C, C++, Bash, R, LaTeX, HTML, CSS, Php, javascript, Sage, Pascal, Ocaml, Lex, Yacc, MySQL
- OS Linux, OSX