Chris FOULON

PhD

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Career Summary

2019 – now **Senior Research Fellow**, *High Dimensional Neurology*, Department of Brain Repair & Rehabilitation at the UCL Queen Square Institute of Neurology, Supervisor : Parashkev Nachev.

2018 – 2019 **Postdoc in Computational Neuroimaging**, *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.

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

Nascimento Alves P, **Foulon C**, Karolis V, Bzdok D, Margulies D, Volle E, and Thiebaut de Schotten M. Subcortical Anatomy of the Default Mode Network : a functional and structural connectivity study. *Communications Biology*, In press.

Pacella V, **Foulon C**, Jenkinson P M., Scandola M, Bertagnoli S, Avesani R, Fotopoulou A, Moro V, and Thiebaut de Schotten M. Anosognosia for hemiplegia as a tripartite disconnection syndrome. *eLife*, 8 :e46075, August 2019.

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 tutorial 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

Brain Structure and Function

Brain

Communications Biology

NeuroImage

Training

2019 Nature Research Academies Author Workshop, *Training course in academic writing and publishing*.
2 days

2019 Neurohackademy, *Summer school + Hackathon on neuroscience data analyses for shareable and reproducible science*, neurohackademy.org.
2 weeks

2019 Brainhack, *Hackathon evaluate and improve non-human preprocessing pipelines for fMRI and sMRI data*.
3 days

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

Technical Skills

Neuroimaging software	C-PAC, Nipype, Scikit-Learn, Nilearn, ANTs, Dipy, MRtrix, FSL, AFNI
Tools	Git, Docker, Singularity
Programming languages	Python, Java, C, C++, Bash, R, LaTeX, HTML, CSS, Php, javascript, Sage, Pascal, Ocaml, Lex, Yacc, MySQL
OS	Linux, OSX
My Github page	github.com/chrisfoulon