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LEFORT-BESNARD Jérémy

Currently postdoc at Empen team, INRIA, Rennes, France

· Brain imaging · Quantitative neuroscience · Reproducibility

EDUCATION

2015-2019	Ph.D in computational neuroscience (Magna Cum Laude) Supervision: Prof. Danilo Bzdok, RWTH University Prof. Danielle S. Bassett, UPENN Scholarship: International Research Training Group (DFG-IRTG 2150)	<i>RWTH Aachen, Germany</i>
2015	Master “Neurosciences, Cognition and Psychology” (with honors) Psychologist title , supervision by the Master “Child psychology”	<i>University of Tours, France</i>
2013	Bachelor in Psychology (with honors)	<i>Bucknell University, USA and University of Tours, France</i>

SELECTED PUBLICATIONS

All codes are hosted on my Github account

- Peer reviewed journal -

Lefort-Besnard J., Clemens B., Ritter C., Smith E., Votinov M., Derntl B., Habel U., Bzdok D. Accurate machine-learning prediction of sexual orientation based on brain morphology and intrinsic functional connectivity. *Cerebral Cortex*. 2022.

In charge of the full statistical workflow (stacking pipeline with classification models)

Chechko N, **Lefort-Besnard J**, Eickhoff S, Stickel S, Goecke T, Frensch M, Habel U, Lang J, Bzdok D. Restless legs syndrome in pregnancy: Striatum structure explains most behavioral differences. *Nature: Scientific Reports*. 2021

My technical responsibilities included the regularized regression and the CCA analyses.

Lefort-Besnard J., Vogeley K, Schilbach L, Varoquaux G, Thirion B, Dumas G, Bzdok D. Patterns of Autism Symptoms: Hidden Structure in the ADOS and ADI-R instruments. *Nature: Translational Psychiatry*. 2020

In charge of the full statistical workflow (clustering and sparse regression analyses)

Lefort-Besnard J., Varoquaux G., Derntl B., Gruber O., Aleman A., Jardri R., Sommer I., Thirion B., Bzdok D. Patterns of Schizophrenia Symptoms: Hidden Structure in the PANSS Questionnaire. *Nature: Translational Psychiatry*. 2019

In charge of the full statistical workflow (clustering, linear and non-linear analyses)

OHBM 2019 Roma abstract presentation

Lefort-Besnard J., Bassett S.D., Smallwood J., Margulies S.D., Derntl B., Gruber O., Aleman A., Jardri R., Varoquaux G., Thirion B., Eickhoff B.S., Bzdok D. Different shades of default mode disturbance in schizophrenia: Subnodal covariance estimation in structure and function. *Human Brain Mapping*. 2017. 39:644–661

In charge of the full statistical workflow (sparse inverse covariance)

OHBM 2018 Singapor abstract presentation + awarded of the DAAD travel grant

- Conference paper -

Lefort-Besnard J., Wan-Ting Hsieh, Hao-Chun Yang, Li-Wei Kuo, Chi-Chun Lee. Behavior Score-Embedded Brain Encoder Network for Improved Classification of Alzheimer Disease Using Resting State fMRI. IEEE EMBC 2020.

In charge of the full scans preprocessing + statistical workflow (Convolutional Neural Network and autoencoder)

42nd Annual International Conference IEEE EMBC 2020 Montreal presentation

