Azeez Adebimpe, PhD

CONTACT INFORMATION

Technology Service Section
Johnson and Johnson, Raritan, NJ, USA

+1 267 541 4437
azeez.adebimpe@outlook.com

EXPERTS AND SKILLS

Personal skills
- Curiosity, Social Intelligence, Attention to Detail, Zest, Team Work,

Computer Programming
- UNIX, Shell Scripting, Python, R, MATLAB, C/C++, Node.js

Analysis tools
- Machine Learning, Advanced Statistical Analysis, Graph Theory, Applied Mathematics
- Natural Language Processing and Generation, Neural Machine Translation, Intelligent Automation
- Deep learning, Connectivity, Complex system, System Modeling, Numerical Analysis
- Docker/Singularity, Cloud computing, High performance computing, AWS,GCP, Azure

WORK EXPERIENCE

Lead Machine Learning Engineer Dec- 2021 - to-date
Technology Service Section
Johnson and Johnson, Raritan, NJ, USA
Responsibilities:
- Built a Neural Machine Translation platform for the whole JnJ to reduce vendor dependent by 80%
- Leads squad engineers to build and maintain ML, Computer Vision, and NLP platforms and applications
- implements many intelligent automation projects that drive enhance business processes, speed up scientific discovery and save more than $500 million for JnJ (first two quarters)
- Translate business requirements for technical understanding for various and provide technical guidance to the technical teams
- Design and drive roadmaps for Intelligent automation platforms (NLP, AI, ML, Computer Vision,)
- Cloud computing management (AWS, GCP, Azure)

Senior Research Investigator Feb- 2020 - Dec-2021
NeuroPsychiatry Section, Penn Medicine
University of Pennsylvania, Philadelphia, USA
Responsibilities:
- Management, processing, and analysis neuroimaging data
- Neuroimaging method and software pipeline development
- Big data management and analysis
- Cloud computing management
- Advanced method development for perfusion imaging
- Project design, protocol implementation, data analysis and interpretation

Postdoctoral Research Fellow July 2018 - Feb. 2020
NeuroPsychiatry Dept, Penn Medicine
University of Pennsylvania, Philadelphia, USA
Mentor : Prof. Ted Satterthwaite
Responsibilities:
- Management, processing, and analysis neuroimaging data
- Neuroimaging method and software pipeline development
- Longitudinal multimodal imaging study on Irritability in youth
- Longitudinal Mapping of Network Development Underlying Executive Dysfunction
- Advanced method development for perfusion imaging
- Project design, protocol implementation, data analysis and interpretation

William J. Heinrich Postdoctoral Fellow July 2016 - June 2018
Adolescent Health and Risk Communication
Annenberg Public Policy Center and Bioengineering Department
University of Pennsylvania, Philadelphia, USA

Objective: Neurobiological basis of violence entertainment in young adults
Supervisors : Prof. Daniel Romer and Prof. Danielle S. Bassett
Responsibilities:

- Neural basis of violence videos and violence games involve gun shootings
- Brain-behavior relations as they apply to policy relevant questions in adolescent development,
- Focus on the maladaptive effects of exposure to media violence.
- Project design, protocol implementation, data analysis and interpretation
- Supervising graduate students

Doctoral Researcher (Neuroscience) Sept. 2013 to 2016
INSERM U1105, Centre for University Research, Universite de Picardie Jules Verne, Amiens, France.
Objective: Understanding brain functional activity and connectivity in young children and neonates
Responsibilities:

- Functional brain development in neonates and young children
- Identify EEG patterns and analysis in premature and full term neonates
- Set up research collaboration with Institute of Biomedical Engineering,Suzhou, China
- Visit NeuroImaging Centre at University of Groningen (Host: Prof M. Natasha)
- Supervising Master Students and assist other students
- Laboratory Technical Secretary and Journal Class Organizer

Research Master Student Sept 2012 to July 2013
Medical Image and Signal processing group, Ghent University, Ghent, Belgium.
Objective: Design pipeline for accurate EEG forward and inverse problem with realistic head model
Responsibilities:

- MRI segmentation techniques and realistic head model construction
- EEG source analysis - forward and inverse problems
- Validation of the models with epilepsy data
- Implement the pipeline in Python with interface to Matlab
- fMRI and PET acquisition and analysis

Intern April 2012 to August 2012
University Medical Centre, Groningen
Objective: Quality assurance for Magnetic resonance imaging machines
Responsibilities:

- Reliability and safety measures for all MRI machines
- Inspect the scientists during MRI scanning
- Perform quality assurance of MRI with phantom and subject
- Design daily and weekly quality assurance report
- Design different MRI sequences

Research Assistant April 2009 to August 2011
CERD, Obafemi Awolowo University, Ile-Ife, Nigeria.
Objective: Maintaining software of laboratory machines and data analysis
Responsibilities:

- Computer programming and training students
- Image and signal analyses

Trainee Electrical Engineer Oct. 2008 to April 2009
Units Environmental Sciences Limited, Abuja , Nigeria
Objective: Design and review building electrical and mechanical services installations
Responsibilities:

- Research and development for new electrical designs
- Electrical services design- wiring, lighting and security
- Site supervisor

Education

Universite de Picardie Jules Verne, Amiens, France

Ph.D., Neuroscience, June 2016
Main Courses: Advanced Statistical Analysis, Brain Imaging, Multimodal neuroImaging, Scientific writing and literature search

- Thesis Topic: *Resting state analysis and brain connectivity in young children, preterm and full term neonates*
- Advisor: Prof. Fabrice Wallois, MD, PhD

University of Groningen, The Netherlands

M.Sc., Biomedical Engineering (Double Master Degrees), Sept. 2011 to July 2013
Erasmus Mundus Programme
Main Courses: Biomedical Signals and Systems, Magnetic Resonance Imaging, Advanced Statistical Analysis, Advanced Image and Signal Processing, Imaging Techniques in Radiology, Biomedical instrumentation, Neuromechanics, Radiotherapy Techniques, Medical Dosimetry, Material Science

Ghent University, Belgium

M.Sc., International Master of Biomedical Engineering, Sept. 2011 to July 2013
Erasmus Mundus Programme
Main Courses: Biomedical Signals and Systems, Magnetic Resonance Imaging, Advanced Statistical Analysis, Advanced Image and Signal Processing, Imaging Techniques in Radiology, Biomedical instrumentation, Neuromechanics, Radiotherapy Techniques, Medical Dosimetry, Material Science

- Thesis Topic: *A comparison study between automated tissue segmentation of brain MR-images using SPM, FSL and FreeSurfer for EEG source reconstruction*
- Advisors: Prof. Stefaan Vandenberghe, PhD and Prof. Christian Vanhove, PhD
- *Distinction*

Federal University of Technology, Minna, Nigeria,

B. Eng., Electrical and Computer Engineering (Double Major), Sept. 2003 to Sept 2008
Main Courses: Engineering Mathematics, Computational Mathematics, Computer Programming, Control Engineering, Digital and Analogue Electronics, Measurement and Instrumentation, EM Fields andWaves, Communication Principles, Software Engineering, Digital Signal Processing, System Engineering, Reliability Engineering, Microcomputer Technology, Power System Engineering, Electrical Services Design

- Thesis Topic: *Design, construction and implementation of queue management system*
- Advisor: Dr Ayo Imoru
- *Distinction, Overall Best Student*

Academic Scholarship

- 3-year Competitive INSERM PhD Scholarship 2013-2016
- 2-year Competitive Erasmus Mundus Master Scholarship 2011-2013
- State Scholarship for Best Student in Final Year Secondary School 1999

Honour and Awards

- Best Erasmus Student in Biomedical Engineering 2013
- Vice Chancellor Award for Best Graduating Student, FUT, Minna, 2008
- NSE Award for Best Graduating Student, FUT, Minna, 2008
- NSE Award for Best Graduating Final Year Thesis FUT, Minna, 2008
- Outstanding Performance in Science and Engineering, FUT, Minna, 2008

Grants and Bursaries

- Summer Seminar in Neuroscience and Philosophy at Duke University, $1500 honorarium, $ 30000 for research project.
- ECCN Bursary for European Congress on Clinical Neurophysiology, Brno, Czech Republic, Sept 30- Oct. 3, 2015 (€600)
- Travel Grant for Societe des Neurosciences, Montpellier, 19-22 May, 2015 (€250)
- INCF Travel Grant for Research Visit to the University of Gronigen, Netherlands, May, 2015 (€1000)

- INCFTravel Grant for 2014 Neuroinformatics Conference, Leiden, Netherlands, September 2014 (€1000)
- Campus France 2-year Competitive Travel Grant to China under Sino-French Cai Yuanpei Programme 2014- 2016

Journal Publications

1. **Adebimpe, A.**, Bassett, D. S., Jamieson, P. E., Romer, D. (2019). Intersubject Synchronization of Late Adolescent Brain Responses to Violent Movies: A Virtue-Ethics Approach. Frontiers in Behavioral Neuroscience, 13. https://doi.org/10.3389/fnbeh.2019.00260

2. Bertolero, M. A., **Adebimpe, A** ., Khambhati, A. N., Mattar, M. G., Romer, D., Thompson-Schill, S. L., Bassett, D. S. (2020). Learning differentially reorganizes brain activity and connectivity. BioRxiv, 2020.02.23.961623. https://doi.org/10.1101/2020.02.23.961623

3. Cornblath, E., Ashourvan, A., Kim, J. Z., Betzel, R. F., Ciric, R., **Adebimpe, A.**, Baum, G. L., He, X., Ruparel, K., Moore, T. M., Gur, R. C., Gur, R., Shinohara, R., Roalf, D., Satterthwaite, T. D., Bassett, D. (2020). Transitions to Default Mode and Frontoparietal Network Activation States are Associated With Age and Working Memory Performance. Biological Psychiatry, 87(9), S457–S458. https://doi.org/10.1016/j.biopsych.2020.02.1164

4. Cornblath, E. J., Ashourvan, A., Kim, J. Z., Betzel, R. F., Ciric, R., **Adebimpe, A.,** Baum, G. L., He, X., Ruparel, K., Moore, T. M., Gur, R. C., Gur, R. E., Shinohara, R. T., Roalf, D. R., Satterthwaite, T. D., Bassett, D. S. (2020). Temporal sequences of brain activity at rest are constrained by white matter structure and modulated by cognitive demands. Communications Biology, 3(1), 1–12. https://doi.org/10.1038/s42003-020-0961-x

5. Cui, Z., Li, H., Xia, C. H., Larsen, B., **Adebimpe**, A., Baum, G. L., Cieslak, M., Gur, R. E., Gur, R. C., Moore, T. M., Oathes, D. J., Alexander-Bloch, A. F., Raznahan, A., Roalf, D. R., Shinohara, R. T., Wolf, D. H., Davatzikos, C., Bassett, D. S., Fair, D. A., ... Satterthwaite, T. D. (2020). Individual Variation in Functional Topography of Association Networks in Youth. Neuron, 106(2), 340-353.e8. https://doi.org/10.1016/j.neuron.2020.01.029

6. Jirsaraie, R. J., Kaczkurkin, A. N., Rush, S., Piiwia, K., **Adebimpe, A.,** Bassett, D. S., Bourque, J., Calkins, M. E., Cieslak, M., Ciric, R., Cook, P. A., Davila, D., Elliott, M. A., Leibenluft, E., Murtha, K., Roalf, D. R., Rosen, A. F. G., Ruparel, K., Shinohara, R. T., ... Satterthwaite, T. D. (2019). Accelerated cortical thinning within structural brain networks is associated with irritability in youth. Neuropsychopharmacology, 44(13), 2254–2262. https://doi.org/10.1038/s41386-019-0508-3

7. Pines, A. R., Cieslak, M., Larsen, B., Baum, G. L., Cook, P. A., **Adebimpe, A.**, Dávila, D. G., Elliott, M. A., Jirsaraie, R., Murtha, K., Oathes, D. J., Piiwaa, K., Rosen, A. F. G., Rush, S., Shinohara, R. T., Bassett, D. S., Roalf, D. R., Satterthwaite, T. D. (2020). Leveraging multi-shell diffusion for studies of brain development in youth and young adulthood. Developmental Cognitive Neuroscience, 43, 100788. https://doi.org/10.1016/j.dcn.2020.10078
Vandekar, S. N., Satterthwaite, T. D., Xia, C. H., Adebimpe, A., Ruparel, K., Gur, R. C., Gur, R. E., Shinohara, R. T. (2019). Robust spatial extent inference with a semiparametric bootstrap joint inference procedure. Biometrics, 75(4), 1145–1155. https://doi.org/10.1111/biom.13114

8. Xu, A., Larsen, B., Baller, E. B., Scott, J. C., Sharma, V., **Adebimpe, A.,** Basbaum, A. I., Dworkin, R. H., Edwards, R. R., Woolf, C. J., Eickhoff, S. B., Eickhoff, C. R., Satterthwaite, T. D. (2020). Convergent neural representations of experimentally-induced acute pain in healthy volunteers: A large-scale fMRI meta-analysis. Neuroscience Biobehavioral Reviews, 112, 300–323. https://doi.org/10.1016/j.neubiorev.2020.01.004

9. Zaixu Cui, Hongming Li, Cedric H. Xia, Bart Larsen,**Azeez Adebimpe**. et al. Individual Variation in Control Network Topography Supports Executive Function in Youth bioRxiv, available at https://doi.org/10.1101/694489

10. Anna Xu, Bart Larsen, Erica B. Baller, J. Cobb Scott, Vaishnavi Sharma, **Azeez Adebimpe** et. al. (2019). Convergent neural representations of acute nociceptive pain in healthy volunteers: A large-scale fMRI meta-analysis. bioRxiv, available at https://doi.org/10.1101/779280

11. Bourel-Ponchel, E., Mahmoudzadeh, M., **Adebimpe, A.,** and Wallois, F. (2019). Functional and structural network disorganizations in typical ECTS and impact on cognitive neurodevelopment. Neurophysiol. Clin. 49, 196. doi:10.1016/j.neucli.2019.05.041.

12. Emilie, B.-P., Mahmoudzadeh, M., **Adebimpe, A.,** and Wallois, F. (2019). Functional and structural network disorganizations in typical epilepsy with centro-temporal spikes and impact on cognitive neurodevelopment. Front. Neurol. 10. doi:10.3389/fneur.2019.00809.

13. Erica B. Baller, Antonia N. Kaczkurkin, Aristeidis Sotiras, , **Azeez Adebimpe**, et. al, Neurocognitive and Functional Heterogeneity in Depressed Youth, bioRxiv, https://doi.org/10.1101/7788

14. Jirsaraie, R. J., Kaczkurkin, A. N., Rush, S., Piiwia, K., **Adebimpe, A.,** Bassett, D. S., et al. (2019). Accelerated Cortical Thinning within Structural Brain Networks is Associated with Irritability in Youth. Neuropsychopharmacology, (2019) 0:1–9; https://doi.org/10.1038/s41386-019-0508-3

15. Vandekar, S. N., Satterthwaite, T. D., Xia, C. H., **Adebimpe, A.,** Ruparel, K., Gur, R. C., et al. (2019). Robust Spatial Extent Inference with a Semiparametric Bootstrap Joint Inference Procedure. Biometrics 0. doi:10.1111/biom.13114.

16. **Adebimpe, A.**, Routier, L., and Wallois, F. (2019). Preterm Modulation of Connectivity by Endogenous Generators: The Theta Temporal Activities in Coalescence with Slow Waves. Brain Topogr., 1–11.

17. Cornblath, E. J., Tang, E., Baum, G. L., Moore, T. M., **Adebimpe, A.**, Roalf, D. R., et al. (2019). Sex differences in network controllability as a predictor of executive function in youth. NeuroImage 188, 122–134.

18. Pines, A. R., Cieslak, M., Baum, G. L., Cook, P. A., **Adebimpe, A.**, Dávila, D. G., et al. (2019). Advantages of Multi-shell Diffusion Models for Studies of Brain Development in Youth. bioRxiv, 611590.

19. **Adebimpe, A.**, Bertolero, M. A., Khambhati, A. N., Mattar, M. G., Romer, D., Thompson-Schill, S. L., et al. (2018). Dynamic constraints on activity and connectivity during the learning of value. arXiv:1810.08840, Available at: http://arxiv.org/abs/1810.08840

20. Ciric R, Rosen AFG, Erus G, Cieslak M, **Adebimpe A**, Cook PA, Bassett DS, Davatzikos C, Wolf DH and Satterthwaite TD. Mitigating head motion artifact in functional connectivity MRI. Nature Protocols 1 (2018). doi:10.1038/s41596-018-0065-y

21. Daniel Romer, Patrick E. Jamieson, Kathleen H. Jamieson , Robert Lull, **Azeez, Adebimpe**, Parental Desensitization to Gun Violence in PG-13 Movies: The Role of Violence Justification, Pediatric

22. **Adebimpe, A.**, Wallois, F, Dynamic preterm brain network modulated by endogenous generators of immature temporal theta activities, NeuroImage

23. **Adebimpe, A.**, Bourel-Ponchel, E., Wallois, F., 2017. Identifying neural drivers of benign childhood epilepsy with centrotemporal spikes. NeuroImage Clin. doi:10.1016/j.nicl.2017.11.024

24. **Adebimpe, A.**, Aarabi, A., Bourel-Ponchel, E., Mahmoudzadeh, M., Wallois, F., 2015a. EEG resting state analysis of cortical sources in patients with benign epilepsy with centrotemporal spikes. NeuroImage Clin. 9, 275 to 282. doi:10.1016/j.nicl.2015.08.014.

25. **Adebimpe, A.**, Aarabi, A., Bourel-Ponchel, E., Mahmoudzadeh, M., Wallois, F., 2015b. Functional Brain Dysfunction in Patients with Benign Childhood Epilepsy as Revealed by Graph Theory. PLoS ONE 10, e0139228. doi:10.1371/journal.pone.0139228

26. **Adebimpe, A.**, Aarabi, A., Bourel-Ponchel, E., Mahmoudzadeh, M., Wallois, F., EEG resting state functional connectivity analysis in children with benign epilepsy with centrotemporal spikes, Frontiers in Neuroscience.

Journal in review

1. **Adebimpe, A.**, Bassett, D. S, Jamieson P. E, and Romer, D, The neural correlates of viewing movie gun violence in young adults, Human brain Mapping,
2. **Adebimpe, A.**, Bassett, D. S, and Romer, D. Inter-subject synchronization of brain activity reveals acceptance of movie gun violence in young adults, NeuroImage

Journals in Preparation

1. Patterns of dynamic brain network reconfiguration shared across subjects during the learning of value (completed)
2. Dynamic brain network reconfiguration modulated by violence movie
3. Emotion and motivation direct executive control to process violence action

Oral Presentations and Invited Talks

1. Dynamic constraints on activity and connectivity during the learning of value presented at Network Neuroscience Conference, May 28, 2019
2. Zaixu Cui, Hongming Li, Cedric H. Xia, **Azeez Adebimpe**, Danielle S. Bassett,Graham L. Baum, Matt Cieslak, Christos Davatzikos, Damien A. Fair, Raquel E. Gur, Ruben C. Gur, Bart Larsen, Tyler M. Moore, Armin Raznahan, David R. Roalf, Russell T. Shinohara, Daniel H. Wolf, Yong Fan, Theodore D. Satterthwaite, Individual Variation in Fronto-Parietal Control Network Topography Supports Executive Function in Youth, presented at Flux Society Congress, August 30 to Sept 1, 2019.
3. Influence of temporal theta burst activity on the functional connectivity of the cortical networks in preterm neonates presented at 15th European Congress on Clinical Neurophysiology, Sept 09-13, 2015, Brno, Czech Republic
4. Theta waves oscillation modulates high frequency signals in premature neonates presented at Annual Conference on Clinical Neurophysiology and NeuroImaging 2015, Sept 30- Oct. 3, 2015, Brno, Munich, Germany
5. Brain networks and functional connectivity in benign childhood epilepsy presented at GDR2904 Multielectrode systems and Signal processing for Neuroscience, October 14-15 in Gif sur Yvette, France
6. Network Modeling of the Brain presented at Young Researchers Network on Complex Systems, Lucca, Italy, 26-30 Sept,2014.
7. The disruption of resting state networks in adolescents with benign childhood epilepsy with centrotemporal spikes presented at Structure Federative de Researche, UPJV, Amiens, France, March 27, 2014,

Peer-Review Conference Publications

1. Adebimpe, A., Bassett, D. S, and Romer, D, Inter-subject synchronization of young adult brain activity reveals justification of gun violence in movies, Annual Computational Neuroscience, March 24-27,2018
2. Adebimpe, A., Bassett, D. S, and Romer, D, Young adult neural responses to viewing gun violence videos , Society for Neuroscience , 11-15, November 2015
3. Assessing the functional connectome in the preterm brain, 22nd Annual Meeting of the Organization for Human Brain Mapping, June 26 to 30, Geneva, Switzerland.
4. Brain network analysis of EEG functional connectivity in patients with benign childhood epilepsy with centro-temporal spikes 15th European Congress on Clinical Neurophysiology, Sept 30- Oct. 3, 2015, Brno, Czech Republic.
5. Graph theoretical analysis of EEG functional connectivity in children with benign childhood epilepsy. e-poster presented at Annual Conference on Clinical Neurophysiology and NeuroImaging 2015, Sept 30- Oct. 3, 2015, Munich, Germany.

6. Investigation of electroencephalographic functional connectivity in term and preterm neonates, Submitted for 12th Congress of Societe de Neurosciences, May 19 - May 22, 2015, Montpellier, France.

7. Altered brain functional connectivity in patients with benign childhood epilepsy, INCF Congress, Aug. 25 - Aug. 27, 2014, Leiden, Netherlands.

8. Resting-state EEG functional connectivity in benign childhood epilepsy, Society for Clinical Neurophysiology and Language(SNCLF), June 25- 27, 2014, Angers, France.

9. The comparison of resting state networks between normal children and adolescents with benign childhood epilepsy with centrotemporal spikes: A high density EEG study, 30th International Congress of Clinical Neurophysiology, March 19-22, 2014, Berlin, Germany, March 19-22, 2014.

10. Influence of temporal theta burst activity on the functional connectivity of the cortical networks in preterm neonates presented at 15th European Congress on Clinical Neurophysiology, Sept 09-13, 2015, Brno, Czech Republic

11. Theta waves oscillation modulates high frequency signals in premature neonates presented at Annual Conference on Clinical Neurophysiology and NeuroImaging 2015, Sept 30- Oct. 3, 2015, Brno, Munich, Germany

12. Brain networks and functional connectivity in benign childhood epilepsy presented at GDR2904 Multi-electrode systems and Signal processing for Neuroscience, October 14-15 in Gif sur Yvette, France

Poster Presentations

1. Alessra Valcarce, Simon N. Vekar, Tinashe Tapera, **Azeez Adebimpe,** David Roalf, Armin Raznahan, Theodore Satterthwaite, Russell Shinohara, Kristin Linn, Approaches for Modeling Spatially Varying Associations Between Multi-Modal Images, Joint Statistical Meetings - American Statistical Association,July 27 – August 1, 2019

2. Bart Larsen, Tyler M. Moore, Russell T. Shinohara, Mark A. Elliott, Kosha Ruparel, **Azeez Adebimpe,** Josiane Bourque, Monica E. Calkins, Ruben C. Gur, Raquel E. Gur, Paul J Moberg, Adrian Raine, Bruce I. Turetsky, Simon N. Vandekar, Daniel H. Wolf, David R. Roalf, Theodore D. Satterthwaite, Longitudinal development of basal ganglia tissue-iron concentration in youth, Flux Society Congress, August 30 to Sept 1, 2019.

3. Erica B. Baller, Antonia N. Kaczkurkin, Aristeidis Sotiras, Erdem Varol, Tyler M. Moore, Cedric Huchuan Xia, **Azeez Adebimpe,** Monica E. Calkins, Raquel E. Gur, Ruben C. Gur, Daniel H. Wolf,Danielle S. Bassett, Kristin A. Linn, Christos Davatzikos, Theodore D. Satterthwaite, Semi-supervised Machine Learning Reveals Three Patterns of Cognitive Function In Depressed Youth, American College of Neuropsychopharmacology, Dec 9-13, 2018

4. Adebimpe, A., Bassett, D. S, and Romer, D, PhD, Young adult neural responses to viewing gun violence videos , Society for Neuroscience , 11-15, November 2015

5. Assessing the functional connectome in the preterm brain, 22nd Annual Meeting of the Organization for Human Brain Mapping, June 26 to 30, Geneva, Switzerland.

6. Brain network analysis of EEG functional connectivity in patients with benign childhood epilepsy with centro-temporal spikes **15th European Congress on Clinical Neurophysiology**, Sept 30- Oct. 3, 2015, Brno, Czech Republic.

7. Graph theoretical analysis of EEG functional connectivity in children with benign childhood epilepsy. eposter presented at Annual Conference on Clinical Neurophysiology and NeuroImaging 2015, Sept 30- Oct. 3, 2015, Munich, Germany.

8. Investigation of electroencephalographic functional connectivity in term and preterm neonates, Submitted for 12th Congress of Societe de Neurosciences, May 19 - May 22, 2015, Montpellier, France.
9. Altered brain functional connectivity in patients with benign childhood epilepsy, INCF Congress, Aug. 25 - Aug. 27, 2014, Leiden, Netherlands.
10. Resting-state EEG functional connectivity in benign childhood epilepsy, Society for Clinical Neurophysiology and Language(SNCLF), June 25- 27, 2014, Angers, France.
11. The comparison of resting state networks between normal children and adolescents with benign childhood epilepsy with centrotemporal spikes: A high density EEG study, 30th International Congress of Clinical Neurophysiology, March 19-22, 2014, Berlin, Germany, March 19-22, 2014.

Open Source Contributions

1. ASLPrep, A Robust Preprocessing Pipeline for ASL Data, https://aslprep.readthedocs.io. The pioneer creator and maintainer, doi:10.5281/zenodo.3863030
2. xcpEngine, Open-source software package for processing of multimodal neuroimages, https://xcpengine.re The lead contributor and maintainer, doi:10.5281/zenodo.3840960
3. SDCflows: Susceptibility Distortion Correction workflows. , https://github.com/nipreps/sdcflows. Researcher and Contributor, doi:10.5281/zenodo.3862809
4. C-PAC: Configurable Pipeline for the Analysis of Connectomes. , http://fcp-indi.github.io/docs/user/qui Contributor, doi:10.5281/zenodo.3756175
5. fMRIPrep: a robust preprocessing pipeline for functional MRI. , https://fmriprep.readthedocs.io.Researcl and Contributor, doi:10.5281/zenodo.3861875

Workshops and Training Schools

1. NeuroHackademy, The University of Washington, July 29 -August 9, 2019
2. Neuro Reproducibility Hackashop, Johns Hopkins University,March 6-8, 2019
3. Power-laws and multiple scales in neural systems workshop, European Institute for Theoretical Neuroscience, Paris, France, March 12-13, 2015, EEG and electrophysiology signals in multi-scales.
4. Young Researchers Network on Complex Systems, Lucca, Italy, 26-30 Sept,2014, Presented - Network Modeling of the Brain.
5. Introduction to Neuroinformatics, INCF Congress, Leiden, The Netherlands, , 22-23 April,2014, Pre-conference school, introducing young researchers to data analysis and neuroscience database management.
6. Practical data analysis and modeling in cognitive and clinical neuroscience, INCF and Ghent University, Ghent, Belgium, 14-18 April, 2014, Practical classes on analysis of EEG/MEG and fMRI analysis with different toolboxes and methods such as source analysis, connectivity, machine learning, pattern recognition.

Invitation for review

1. NeuroImage
2. Brain and development
3. Transactions on Neural Systems and Rehabilitation Engineering
4. Chaos
5. Scientific Report
6. Journal of Neurophysiology

Professional Membership

1. Society for Neuroscience (SFN)
2. Organization for Human Brain Mapping (OHBM)
3. Institute of Electrical and Electronics Engineers (IEEE)
4. Société des Neurosciences (France)
5. International Neuroinformatics Coordinating Facility (INCF)
6. Young Researchers Network on Complex Systems (YRNCS)

Service

Member of West Philadelphia Soccer Group — July 2016 to Date
- Using Soccer to help local community
- Co-organized meetings, symposiums.

Erasmus Students Organizing Committee — March 2013
Coordinator of the committee
- Organized best erasmus meeting for students from 5 European countries

Co-founder of African Students Community in Groningen — Dec. 2011 – July 2012
West and North African students representative
- Set up the union for all African students in Groningen
- Co-organized meetings, symposiums.

Skills

Language skill:
- English — Native
- Dutch — Words and phrases
- French — Words and phrases

Writing tools:
- Latex, Zotero, Microsoft suites

Interest:
- Reading and Footballing