**Curriculum Vitae**

Yasser Iturria-Medina

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1. **IDENTIFICATION**

**Name:** Yasser Iturria Medina.

**Professional Status:** Tenure-track Assistant Professor, Neurology and Neurosurgery Department, Montreal Neurological Institute. Associate Member: Biological and Biomedical Engineering Department; Ludmer Centre for Neuroinformatics and Mental Health; and McConnell Brain Imaging Centre. McGill University.

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**B. EDUCATION**

2013-2018: Postdoctoral Training. Montreal Neurological Institute, McGill University. Quebec, Canada.

2008-2013: Ph.D in Health Sciences (Neuroimaging/NeuroInformatics). National Center for Scientific Research. Havana’s University of Medical Sciences. Cuba.

2004-2006: Master in Neurophysics and Neuroengineering. Cuban Neuroscience Center. Havana, Cuba.

1999-2004: Nuclear Engineering (Summa Cum Laude). Higher Institute for Nuclear Sciences and Technology. Havana. Cuba.

**C. APPOINTMENTS**

2018 (August)-present: Tenure-track Assistant Professor, Neurology and Neurosurgery Department, Montreal Neurological Institute, McGill University**.**

2013 (November)-2018 (July): Banting Postdoctoral Fellow. Montreal Neurological Institute, McGill University**.**

2013 (June-October): Visiting Researcher. Montreal Neurological Institute, McGill University**.**

2008-2013 (March): PhD student, supervised by Dr. Nelson Trujillo-Barreto. Neuroimaging Department, Cuban Neuroscience Centre.

2004-2008: Junior Researcher. Neuroimaging Department, Cuban Neuroscience Centre.

 **D. HONORS, AWARDS, GRANTS, RECOGNITIONS**

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| --- | --- | --- | --- |
| **Name/Title and Type** | **Organization** | **Award,****amount** | **Effective** **Date****(MM/YYYY)** |
| Data-driven Biomarker-Based Alzheimer’s Disease Composite Progression Score | MEDTEQ, McGill Univ. | 105 000 $ | 2019-2021 |
| Research Scholars - Junior 1 (Salary andResearch Allocation Award) | Fonds de la recherche en santé du Québec | 325 321 $ | 2019-2023 |
| Rapid Response: Canada 2019 PD-related Disease Program  | Weston Brain Institute(Canada) | 179 750 $  | 2019-2021 |
| Ludmer Centre grant – Neuroinformaticsfor precision medicine | Ludmer centre – McGill Univ. | 65, 089 $ | 2019-2021 |
| Rapid Response: Canada 2018 AD-related Disease Program  | Weston Brain Institute(Canada) | 199 108 $  | 2019-2021 |
| New Investigators Grant award | Healthy Brain for Healthy Lives (HBHL), McGill University | 300 000 $3 years | 2018-2021 |
| Banting Postdoctoral Fellowship | Government of Canada | 140 000 $ 2 years | 2016-2018 |
| Canadian Institutes of Health Research (CIHR) Postdoctoral Fellowship  | Government of Canada | 82 500 $ 1 year and 10 months | 2016-2018 |
| Canadian Imperial Bank of Commerce (CIBC) Fellowship in Brain Imaging  | Montreal Neurological Institute (Canada) | 50 000 $ 1 year | 2016-2017 |
| Postdoctoral Molson Neuro-Engineering Fellowship | Montreal Neurological Institute (Canada) | 50 000 $ 1 year | 2015-2016 |
| Lewis Reford Fellows Travel Award | Montreal Neurological Institute (Canada) | 1500 $ | 2015-2016 |
| National Research Grant: Neural bases of Maternal neglect (in collaboration with the University of La Laguna, Tenerife) | Ministry of Economic and Competitiveness (Spain) | 188 300 €3 years | 2016-2019 |
| National Research Grant (PI14/00815): Developing a unified connectivity metric (in collaboration with Health Institute Carlos III, Madrid). | Ministry of Economy and Competitiveness (Spain) | 34 400 €3 years | 2015-2018 |
| Grant (PTN101): Creation of a digital integrative atlas of structural brain connectivity patterns (in collaboration with Benito Menni Hospital, Barcelona) | CIBERSAM (Spain) |  29 400 €1 year | 2010 |
| National Award on Biomedical Sciences, Cuba | Cuban Academic of Sciences (Cuba) | N/A | 2011 |
| Award to the best neuroimaging publication on the 2011 | Spanish Neuroimage Society (Spain) | N/A | 2011 |
| Summa Cum Laude Distinction | Higher Institute for Nuclear Science and Technology (Cuba) | N/A | 2004 |

**E. RESEARCH**

**Statistics:**

Publications (per-reviewed): 61 (14 as first author)

Citations: 2614

H-index: 22

Students: 12 (three Masters, five PhDs, four postdocs).

**Areas of interest:**

1. Creation and validation of integrative mathematical and computational models to describe complex interactions within/among brain networks (genetic, proteomic, structural, functional, vascular and metabolic connectomes) and cognition.
2. Computational assisted design and evaluation of therapeutic interventions for multiple brain disorders. Development of computational tools for the analyses associated.
3. Multifactorial characterization and prediction of abnormal brain states (e.g. neurodegenerative diseases and cognitive/behavioral disorders).
4. Neuroimaging (MRI, fMRI, PET and DTI-MRI) physics and image processing.

**Peer Reviewed Publications as First Author:**

1. **Yasser Iturria-Medina**, Ahmed F. Khan, Quadri Adewale, Amir Shirazi, ADNI. Blood and Brain Gene Expression Trajectories Underlying Neuropathology and Cognitive Impairment in Neurodegeneration. *Brain* (under review). bioRxiv doi: <http://biorxiv.org/cgi/content/short/548974v1>.
2. **Yasser Iturria-Medina**, Felix M. Carbonell, Alan C Evans and ADNI, 2018. Multimodal Imaging-based Therapeutic Fingerprints for Optimizing Personalized Interventions: Application to Neurodegeneration. *Neuroimage*, [Vol. 179](https://www.sciencedirect.com/science/journal/10538119/179/supp/C), Pages 40–50.
3. **Yasser Iturria-Medina,** Vladimir Hachinski, and Alan C Evans, 2017. The vascular facet of Late-Onset Alzheimer's disease: an essential factor in a complex multifactorial disorder. *Current Opinion in* Neurology. 30(6):623-629. INVITED REVIEW.
4. **Yasser Iturria-Medina,** Félix Carbonell, Roberto C Sotero, Francois Chouinard-Decorte, Alan C Evans, ADNI, 2017. Multifactorial Causal Model of Brain (dis)Organization and Therapeutic Intervention: application to Alzheimer’s Disease. *Neuroimage*, [Volume 152](http://www.sciencedirect.com/science/journal/10538119/152/supp/C), Pages 60–77.
5. **Yasser Iturria-Medina**, Sotero RC, Toussaint PJ, Mateos-Pérez JM, Evans AC, and ADNI, 2016. Early Role of Vascular Dysregulation on Late-Onset Alzheimer´s Disease Progression: evidence from a multi-factorial data-driven analysis. ***Nature Comms.****,* 7, # 11934, doi:10.1038/ncomms11934.
6. **Yasser Iturria-Medina** and Alan C. Evans, 2015. On the central role of brain connectivity in neurodegenerative disease progression. *Frontiers in Aging Neuroscience*. Review paper. May, vol 7, article 90. DOI: 10.3389/fnagi.2015.00090.
7. **Yasser Iturria-Medina**, Roberto C. Sotero, Paule-J Toussain, Alan C. Evans, and the Alzheimer's Disease Neuroimaging Initiative, 2014. Epidemic Spreading Model to Characterize Misfolded Proteins Propagation in Aging and Associated Neurodegenerative Disorders. *PLOS Computational Biology*, Vol. 10 (11), e1003956. COVER.
8. **Yasser Iturria-Medina**, 2013. Brain Anatomical Networks on the Prediction of Abnormal Brain States. *Invited Review. Brain Connectivity*, 3(1): 1-21.
9. [**Iturria-Medina**](http://link.springer.com/search?facet-author=%22Y.+Iturria-Medina%22) **Y**, [Ontivero-Ortega](http://link.springer.com/search?facet-author=%22M.+Ontivero-Ortega%22) M, [Canales-Rodríguez](http://link.springer.com/search?facet-author=%22E.+J.+Canales-Rodr%C3%ADguez%22) EJ., [Melie-García](http://link.springer.com/search?facet-author=%22L.+Melie-Garc%C3%ADa%22) L, [Valdés-Hernández](http://link.springer.com/search?facet-author=%22P.+Vald%C3%A9s-Hern%C3%A1ndez%22) P, and [Pérez-Fernández](http://link.springer.com/search?facet-author=%22A.+P%C3%A9rez-Fern%C3%A1ndez%22) A. 2013. Complex Mouse Brain Anatomical Network Attributes Estimated via Diffusion- MRI Data and Graph Theory. [I*FMBE Proceedings*](http://link.springer.com/bookseries/7403), Vol. 33, 2013, pp 65-68.
10. **Yasser Iturria-Medina**, Alejandro Pérez Fernández, Pedro Valdés Hernández, Lorna García Pentón, Erick J. Canales-Rodríguez, Lester Melie-Garcia, Agustin Lage Castellanos and Marlis Ontivero Ortega, 2011. Automated Discrimination of Brain Pathological State Attending to Complex Structural Brain Network Properties: the Shiverer Mutant Mouse Case. *PLOS One*, 6(5): e19071.
11. **Yasser Iturria-Medina**, Alejandro Pérez Fernández, David M. Morris, Erick J. Canales-Rodríguez, Hamied A. Haroon, Lorna García Pentón, Mark Augath, Lídice Galán García, Nikos Logothetis, Geoffrey J.M. Parker and Lester Melie-García. Brain Hemispheric Structural Efficiency and Interconnectivity Rightward Asymmetry in Human and Non-Human Primates. *Cerebral Cortex*, January 2011; 21:56-67.
12. **Yasser Iturria-Medina**, Roberto C. Sotero, Erick J. Canales-Rodríguez, Yasser Alemán-Gómez and Lester Melie-García, 2008. Studying the Human Brain Anatomical Network via Diffusion-Weighted MRI and Graph Theory. *Neuroimage*, 40, 1064-1076.
13. **Yasser Iturria-Medina**, E. J. Canales-Rodríguez, L. Melié-García, P. A. Valdés-Hernández, Martínez-Montes, E., Alemán-Gómez, A., and Bornot, J. M., 2007. Characterizing Brain Anatomical Connections using Diffusion Weighted MRI and Graph Theory. *Neuroimage*, 36, 645-660.
14. **Yasser Iturria-Medina** and Valdes-Hernández, P., 2007. De las Imágenes de la Difusión a la Conectividad Anatómica Cerebral. *CENIC C. BIOLOGICAS, Vol. 37, No. 4*, 307-315.

**Peer Reviewed Publications as Co-author:**

1. Tremblay-Mercier J, Madjar C, Das S, Dyke S, Étienne P, Lafaille-Magnan ME, Bellec P, Collins L, Rajah N, **Iturria-Medina Y**, Kat J, Hoge R, Chakravarty M, Rosa-Neto P, Villeneuve S, Poirier J, Evans AC, Breitner J & the PREVENT-AD Research Group, 2019. PREVENT-AD: An Open Science Dataset for the Characterization of Pre-symptomatic Alzheimer’s Disease. To be submitted.
2. Wilby Williamson, Adam J Lewandowski, Francois Chouinard-Decorte, Mariane Bertagnolli, F Nils D Forkert, Matteo Bastiani, **Yasser Iturria-Medina**, Jill Betts, Winok Lapidaire, Stefan Kluzek, Odaro Huckstep, Henry Boardman, Celine Delooze, Jane Francis, Stefan Neubauer, Mark Jenkinson, Helen Dawes, Rose Anne Kenny, Charlie Foster, Paul Leeson. Thalamic volume and the heart-brain axis: A novel biomarker for subclinical cardiac dysfunction in young adults. *Circulation* (submitted).
3. Jacob Vogel, **Yasser Iturria-Medina**, Olof T. Strandberg, Ruben Smith, Alan C Evans, Oskar Hansson, for the Alzheimer's Disease Neuroimaging Initiative, the Swedish BioFINDER Study, 2019. Pathological tau spreads through communicating brain regions in human Alzheimer's disease. *Nature Communications* (under review). Available at: <https://www.biorxiv.org/content/early/2019/02/20/555821.full.pdf>
4. Jacob W. Vogel, Renaud La Joie, Michel J. Grothe, Alex Diaz-Papkovich, Andrew Doyle, Etienne Vachon-Presseaud, Claude Lepage, Reinder Vos de Wael, **Yasser Iturria-Medina**, Boris Bernhardt, Gil D. Rabinovici, Alan C. Evans, 2019. Genomic anatomy of the human hippocampus informs interactions with the brain in health and disease. Nature Communications (*under review*).
5. Roberto C. Sotero, Lazaro M. Sanchez-Rodriguez, Mehdy Dousty, **Yasser Iturria-Medina**, Jose M. Sanchez-Bornot, ADNI, 2019. Cross-frequency interactions during diffusion on complex networks are facilitated by scale-free properties. *Frontiers in Physics* (in press). Available at: <https://arxiv.org/ftp/arxiv/papers/1902/1902.07857.pdf>
6. Sebastien Tremblay, Martine Desjardins, Patrick Bermudez, **Yasser Iturria-Medina**, Alan Evans, Pierre Jolicoeur, Louis De Beaumont, 2019. Mild traumatic brain injury: The effect of age at trauma onset on brain structure integrity. *NeuroImage: Clinical* (in press).
7. V Hachinski, K Einhäupl, D Ganten, S Alladi, C Brayne, B. Stephan, Z Khachaturian, M. Sweeney, B Zlokovic, **Y Iturria-Medina**, C Iadecola, N Nishimura, CB Schaffer, S Whitehead, SE Black, L Østergaard, J Wardlaw, S Greenberg, L Friberg, B Norrving, B Rowe, Y Joanette, W Hacke, L Kuller, M Dichgans, M Endres. Preventing Dementia by Preventing Stroke: The Berlin Manifesto. Alzheimer's & Dementia (*in press*).
8. Angela Tam, Christian Dansereau, **Yasser Iturria-Medina**, Sebastian Urchs, Pierre Orban, Hanad Sharmarke, John Breitner, Pierre Bellec, ADNI, 2019. A highly predictive signature of cognition and brain atrophy for progression to Alzheimer's dementia. GigaScience, Volume 8, Issue 5, May 2019, giz055, <https://doi.org/10.1093/gigascience/giz055>
9. Sanchez-Rodriguez, L. M., **Iturria-Medina, Y.**, Baines, E. A., Mallo, S. C., Dousty, M., Sotero, R. C., 2018.  Design of optimal nonlinear network controllers for Alzheimer's disease. PLoS Comput. Biol. 14(5): e1006136. <https://doi.org/10.1371/journal.pcbi.1006136>
10. Ashish Raj, **Yasser Iturria-Medina**, 2018. Network Spread Models of Neurodegenerative Diseases. *Frontiers in Neurology*, section Neurodegeneration. doi: 10.3389/fneur.2018.01159
11. [Carlos A Sánchez Catasús](https://www.sciencedirect.com/science/article/pii/S0925492718302117?via%3Dihub#!), [Antoon Willemsen](https://www.sciencedirect.com/science/article/pii/S0925492718302117?via%3Dihub#!), [Ronald Boellaard,](https://www.sciencedirect.com/science/article/pii/S0925492718302117?via%3Dihub#!) [Luis Eduardo Juarez-Orozco,](https://www.sciencedirect.com/science/article/pii/S0925492718302117?via%3Dihub" \l "!) [Juan Samper-Noa](https://www.sciencedirect.com/science/article/pii/S0925492718302117?via%3Dihub#!), [Angel Aguila-Ruiz](https://www.sciencedirect.com/science/article/pii/S0925492718302117?via%3Dihub#!), [Peter Paul De Deyn](https://www.sciencedirect.com/science/article/pii/S0925492718302117?via%3Dihub#!), [Rudi Dierckx,](https://www.sciencedirect.com/science/article/pii/S0925492718302117?via%3Dihub#!) **[Yasser Iturria-Medina](https://www.sciencedirect.com/science/article/pii/S0925492718302117?via%3Dihub" \l "!)**, [Lester Melie-Garcia](https://www.sciencedirect.com/science/article/pii/S0925492718302117?via%3Dihub#!), 2018. Episodic memory in mild cognitive impairment inversely correlates with the global modularity of the cerebral blood flow network. Psychiatry Research: Neuroimaging, Vol. 30, Pages 73-81. DOI: https://doi.org/10.1016/j.pscychresns.2018.11.003.
12. Jacob W. Vogel, Niklas Mattsson, **Yasser Iturria-Medina**, Olof Strandberg, Michael Schöll, Christian Dansereau, Sylvia Villeneuve, Wiesje M. van der Flier, Philip Scheltens, Pierre Bellec, Alan C. Evans, Oskar Hansson, Rik Ossenkoppele, ADNI, Swedish BioFINDER, 2018. Data-driven approaches improve Tau-PET biomarkers in Alzheimer's disease. Human Brain Mapping, 1;40(2):638-651. doi: 10.1002/hbm.24401.
13. José María Mateos-Pérez, Mahsa Dadar, María Lacalle-Aurioles, **Yasser Iturria-Medina**, Yashar Zeighami, Alan C. Evans, 2018. Structural neuroimaging as clinical predictor: a review of machine learning applications. Neuroimage: Clinical, 20, 2018, Pages 506-522.
14. Félix M. Carbonell, **Yasser Iturria-Medina,** and Alan C Evans, 2018. Mathematical Modeling of Misfolding Protein Mechanisms in Neurological Diseases: an historical overview. Frontiers in Neurology, 9:37. DOI: 10.3389/fneur.2018.00037.
15. Marie Forest\*, **Yasser Iturria-Medina**\*, Jennifer Goldman, Amanda Lovato, Alan Evans, Antonio Ciampi, Aurelie Labbe, and Celia Greenwood, 2017. Gene networks for adult human brain connectivity reveal plasticity pathways. *Human Brain Mapping*, Mar., DOI: 10.1002/hbm.23579.
16. Budhachandra S Khundrakpam, John D Lewis, Seun Jeon, Penelope Kostopoulos, **Yasser Iturria-Medina**, François Chouinard-Decorte, Alan C Evans, 2017. Exploring Individual Brain Variability during Development based on Patterns of Maturational Coupling of Cortical Thickness: A Longitudinal MRI Study. Cerebral Cortex, 1–11, https://doi.org/10.1093/cercor/bhx317.
17. Sébastien Tremblay, **Yasser Iturria-Medina**, José Maria Mateos-Pérez, Alan C. Evans and Louis De Beaumont, 2017. Anatomical network analysis and the development of an MRI-based diagnostic tool for remote sports concussions. *European Journal of Neuroscience*, doi:10.1111/ejn.13583.
18. Francisco J. Román, **Yasser Iturria-Medina**, Kenia Martínez, Sherif Karama, Miguel Burgaleta, Susanne M. Jaeggi, Aron K. Barbey, Alan C. Evans, and Roberto Colom, 2017. Enhanced structural connectivity within a brain sub-network supporting working memory and engagement processes after cognitive training. *Neurobiology of Learning and Memory*, 141:33-43. DOI: 10.1016/j.nlm.2017.03.010.
19. Joon-Young Moon, Jun-Hyeok Kim, Tae-Wook Ko, Minkyung Kim, **Yasser Iturria-Medina**, Jee-Hyun Choi, Joseph Lee, George A. Mashour, and UnCheol Lee, 2017. Structure Shapes Dynamics and Directionality in Diverse Brain Networks: Mathematical Principles and Empirical Confirmation. *Scientific Reports*, 7:46606, DOI: 10.1038/srep46606.
20. Alan C. Evans, Karama S, Vasung L, **Yasser Iturria-Medina**, 2016. Understanding brain development: a major step. ***Lancet Neurology***, http://dx.doi.org/10.1016/ S1474-4422(16)30232-0.
21. Shu, N., **Iturria-Medina, Y.** and Sotero, R.C., 2016. From Micro- to Macroscopic Brain Connectivity Using Multiple Modalities.  BioMed Research International, vol. 2016, Article ID 8128095, 2 pages. doi:10.1155/2016/8128095.
22. Felix Carbonell, Alex P. Zijdenbos, Donald McLaren, **Yasser Iturria-Medina**, Barry J. Bedell and ADNI, 2016. Modulation of glucose metabolism and connectivity by β-amyloid. *Journal of Cerebral Blood Flow & Metabolism*, 0(00), 1–14.
23. F. Carbonell, **Y. Iturria-Medina**, J.C. Jimenez, 2016. Multiple shooting-Local Linearization method for the identification of dynamical systems. *Communications in Nonlinear Science and Numerical Simulation*. [Volume 37](http://www.sciencedirect.com/science/journal/10075704/37/supp/C), Pages 292–304.
24. Yashar Zeighami, Miguel Ulla, **Yasser Iturria-Medina**, Mahsa Dadar, Yu Zhang, Kevin Michel-Herve Larcher, Vladimir Fonov, Alan C Evans, Douglas Louis Collins, Alain Dagher, 2015. [Network structure of brain atrophy in de novo Parkinson's Disease](http://scholar.google.com.cu/scholar_url?url=http://elifesciences.org/content/early/2015/09/07/eLife.08440.abstract&hl=es&sa=X&scisig=AAGBfm2q8Mdu01abLmpaWxOlz2uLmtnkgg&nossl=1&oi=scholaralrt). eLife, 4: e08440. DOI: 10.7554/eLife.08440#sthash.00WLRrzB.dpuf.
25. Erick J. Canales-Rodríguez, Alessandro Daducci, Stamatios N. Sotiropoulos, Emmanuel Caruyer, Santiago Aja-Fernández, Joaquim Radua, **Yasser Iturria-Medina**, Lester Melie-García, Yasser Alemán-Gómez, Salvador Sarró, Edith Pomarol-Clotet, Raymond Salvador, 2015. Spherical deconvolution of multichannel diffusion MRI data with non-Gaussian noise models and spatial regularization. PLoS One, 10(10): e0138910.
26. Alejandro Pérez, Margaret Gillon Dowens, Nicola Molinaro, **Yasser Iturria-Medina**, Paulo Barraza, Lorna García-Pentón, Manuel Carreiras, 2015. Complex brain network properties in late L2 learners and native speakers. Neuropsychologia 68, 209–217.
27. Dacosta-Aguayo R., Graña M., **Iturria-Medina Y.**, et al., 2014.  Impairment of Functional Integration of the Default Mode Network correlates with Cognitive Outcome at three months after Stroke. Human Brain Mapping, [36 (2),](http://onlinelibrary.wiley.com/doi/10.1002/hbm.v36.2/issuetoc)577–590.
28. Pérez A., García-Pentón L., Canales-Rodríguez E.J., Lerma-Usabiaga G., **Iturria-Medina Y.**, Román F.J., Davidson D., Alemán-Gómez Y., Acha J. & Carreiras M. Brain morphometry of Dravet Syndrome. Epilepsy Research, in press. DOI: <http://dx.doi.org/10.1016/j.eplepsyres.2014.06.006>
29. Meiling Li, Heng Chen, Junping Wang, Feng Liu, Zhiliang Long, Yifeng Wang, **Yasser Iturria-Medina**, Jiang Zhang, Chunshui Yu, Huafu Chen, 2014. Handedness- and hemisphere-related differences in small-world brain networks: a diffusion tensor imaging tractography study. Brain Connectivity,  4 (2), 145-156.
30. Lorna García-Pentón, Alejandro Pérez Fernández, **Yasser Iturria-Medina**, Margaret Gillon-Dowens, Manuel Carreiras, 2014. [Anatomical connectivity changes in the bilingual brain](http://www.sciencedirect.com/science/article/pii/S1053811913009294). Neuroimage, [Vol. 84](http://www.sciencedirect.com/science/journal/10538119/84/supp/C), 1, Pages 495–504.
31. [Xue K](http://www.ncbi.nlm.nih.gov/pubmed?term=Xue%20K%5BAuthor%5D&cauthor=true&cauthor_uid=24246142), [Luo C](http://www.ncbi.nlm.nih.gov/pubmed?term=Luo%20C%5BAuthor%5D&cauthor=true&cauthor_uid=24246142), [Zhang D](http://www.ncbi.nlm.nih.gov/pubmed?term=Zhang%20D%5BAuthor%5D&cauthor=true&cauthor_uid=24246142), [Yang T](http://www.ncbi.nlm.nih.gov/pubmed?term=Yang%20T%5BAuthor%5D&cauthor=true&cauthor_uid=24246142), [Li J](http://www.ncbi.nlm.nih.gov/pubmed?term=Li%20J%5BAuthor%5D&cauthor=true&cauthor_uid=24246142), [Gong D](http://www.ncbi.nlm.nih.gov/pubmed?term=Gong%20D%5BAuthor%5D&cauthor=true&cauthor_uid=24246142), [Chen L](http://www.ncbi.nlm.nih.gov/pubmed?term=Chen%20L%5BAuthor%5D&cauthor=true&cauthor_uid=24246142),  **Iturria-Medina** [**Y**](http://www.ncbi.nlm.nih.gov/pubmed?term=Medina%20YI%5BAuthor%5D&cauthor=true&cauthor_uid=24246142), [Gotman J](http://www.ncbi.nlm.nih.gov/pubmed?term=Gotman%20J%5BAuthor%5D&cauthor=true&cauthor_uid=24246142), [Zhou D](http://www.ncbi.nlm.nih.gov/pubmed?term=Zhou%20D%5BAuthor%5D&cauthor=true&cauthor_uid=24246142), [Yao D](http://www.ncbi.nlm.nih.gov/pubmed?term=Yao%20D%5BAuthor%5D&cauthor=true&cauthor_uid=24246142)., 2013. Diffusion tensor tractography reveals disrupted structural connectivity in childhood absence epilepsy. [Epilepsy Res.](http://www.ncbi.nlm.nih.gov/pubmed/24246142) 2013 Oct 21. pii: S0920-1211(13)00256-8. doi: 10.1016/j.eplepsyres.2013.10.002.
32. Erick Jorge Canales-Rodríguez, Joaquim Radua, Edith Pomarol-Clotet, Salvador Sarró, Yasser Alemán-Gómez, **Yasser Iturria-Medina**, Raymond Salvador, 2013. [Statistical analysis of brain tissue images in the wavelet domain: Wavelet-based morphometry](http://www.sciencedirect.com/science/article/pii/S1053811913001055). Neuroimage, May 15; 72:214-26.
33. [Ontivero-Ortega](http://link.springer.com/search?facet-author=%22M.+Ontivero-Ortega%22) M, [**Iturria-Medina**](http://link.springer.com/search?facet-author=%22Y.+Iturria-Medina%22) **Y**, [Melie-García](http://link.springer.com/search?facet-author=%22L.+Melie-Garc%C3%ADa%22) L and [Aubert-Vázquez](http://link.springer.com/search?facet-author=%22E.+Aubert-V%C3%A1zquez%22) E., 2013. Evaluation of Different Geometric Features on the Cerebral Cortex of the Healthy Mouse. [IFMBE Proceedings](http://link.springer.com/bookseries/7403) Volume 33, 2013, pp 77-80.
34. Sotero, R. C., and **Iturria-Medina, Y.** (2011). From Blood Oxygenation Level Dependent (BOLD) signals to brain temperature maps. Bulletin of Mathematical Biology 73, 2731-2747.
35. Valdés-Hernández P.A., Sumiyoshi A., Nonaka H., Haga R., Aubert-Vásquez E., Ogawa T., **Iturria-Medina Y.**, Riera J.J., Kawashima R, 2011. An in vivo MRI template set for morphometry, tissue segmentation, and fMRI localization in rats. Frontiers in Neuroinformatics; 5 (26): 1-19
36. Mitchell Valdés-Sosa, Maria A. Bobes, Ileana Quiñones, Lorna Garcia, Pedro A. Valdes-Hernandez, **Yasser Iturria-Medina**, Lester Melie-Garcia, Francisco Lopera, José Asencio, 2011. [Covert face recognition without the fusiform-temporal pathways](http://www.sciencedirect.com/science/article/pii/S1053811911004745). NeuroImage, Volume 57(3): 1162-1176.
37. Edith Pomarol-Clotet, Erick Jorge Canales-Rodriguez, Raymond Salvador, Salvador Sarró, Jesús J. Gomar, Fidel Vila, Jordi Ortiz-Gil, **Yasser Iturria-Medina**, Antoni Capdevila, Peter J. McKenna, 2010. Medial prefrontal cortex pathology in schizophrenia as revealed by convergent findings from multimodal imaging. Molecular Psychiatry, 15, 823–830.
38. Gretel Sanabria-Diaz, Lester Melie-García, **Yasser Iturria-Medina**, Yasser Alemán-Gómez, Gertrudis Hernández-González, Lourdes Valdés-Urrutia, Lídice Galán, Pedro Valdés-Sosa, 2010. Surface area and cortical thickness descriptors reveal different attributes of the structural human brain networks. Neuroimage, Volume 50(4):1497-510.
39. García-Pentón L., Pérez-Fernández A., Bobes-León M.A., Acoste-Ymas Y., Galán-García L., **Iturria-Medina Y.**, Leh-Sandra E., Valdés-Sosa M., 2010. Neural activation while perceiving biological motion in dynamic facial expressions and point-light body action animations. Neural Regeneration Research; 5(14): 1076.
40. Erick J. Canales-Rodríguez, **Yasser Iturria-Medina**, Yasser Alemán-Gómez, Lester Melie-García, 2010. Deconvolution in Diffusion Spectrum Imaging. Neuroimage, Volume 50(1):136-149.
41. Erick J. Canales-Rodríguez, Ching-Po Lin, **Yasser Iturria-Medina**, Chun-Hung Yeh, Kuan-Hung Cho, and Lester Melie-García. Diffusion Orientation Transform Revisited. Neuroimage, 49(2):1326-39.
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43. Pedro Valdés Sosa, José Miguel Sánchez-Bornot, Roberto Carlos Sotero, **Yasser Iturria-Medina**, Yasser Aleman-Gómez, Jorge Bosch-Bayard, Félix Carbonel and Tohru Ozaki, 2009. Model Driven EEG/fMRI fusion of Brain Oscillations. Human Brain Mapping, 30(9):2701-21.
44. Lester Melie-García, Erick J. Canales-Rodríguez, Yasser Alemán-Gómez, Ching-Po Lin, **Yasser Iturria-Medina**, Pedro A. Valdés-Hernández, 2008. [A Bayesian framework to identify principal intravoxel diffusion profiles based on diffusion-weighted MR imaging](http://www.sciencedirect.com.proxy.cc.uic.edu/science?_ob=ArticleURL&_udi=B6WNP-4SD6SK8-3&_user=186797&_coverDate=08%2F15%2F2008&_rdoc=31&_fmt=high&_orig=browse&_srch=doc-info(%23toc%236968%232008%23999579997%23695049%23FLA%23display%23Volume)&_cdi=6968&_sort=d&_docanchor=&_ct=58&_acct=C000013678&_version=1&_urlVersion=0&_userid=186797&md5=a990cdf256b4bb50a8d749012f41b5f2). Neuroimage, 42, 750-770.
45. Erick Jorge Canales-Rodríguez, Lester Melie-García, **Yasser Iturria-Medina**, Eduardo Martínez-Montes, Yasser Alemán-Gómez, and Ching-Po Lin, 2008. Inferring Multiple Maxima in Intravoxel White Matter Fiber Distribution. Magnetic Resonance in Medicine, 60, 616–630.
46. Sotero, R. C., Trujillo-Barreto, N. J., **Iturria-Medina, Y.**, Carbonell, F., Jiménez, J.C., 2007. Realistically coupled neural mass models can generate EEG rhythms. Neural Computation, 19, 478-512.
47. Martínez-Montes E, Lage-Castellanos A, Canales-Rodríguez EJ, **Iturria-Medina Y**, Valdés-Sosa PA, 2006. El cerebro como sistema complejo: estimación de la conectividad cerebral. Rev. Cub. Física, vol.23, No. 2, p.97-106.

**Books Contributions (edition, chapters)**

* Felix M. Carbonel, **Yasser Iturria-Medina,** and Alan C. Evans, 2019. Book: [Network Spread Models of Neurodegenerative Diseases](https://www.frontiersin.org/research-topics/4971), edited by Ashish Raj and **Yasser Iturria-Medina.** Chapter: Mathematical Modeling of Misfolding Protein Mechanisms in Neurological Diseases: an historical overview. Lausanne: Frontiers Media. doi: 10.3389/978-2-88945-768-7.
* Raj, A., **Iturria-Medina, Y**. (2019). Network Spread Models of Neurodegenerative Diseases. Lausanne: Frontiers Media. doi: 10.3389/978-2-88945-768-7.
* **Yasser Iturria-Medina** and Alan C. Evans, 2018. Book: Brain Network Dysfunction in Neuropsychiatric Illness, edited by Eickhoff SB. Chapter: Networks-mediated spreading of pathology in neurodegenerative diseases. *Nature Springer* (book in preparation).
* **Yasser Iturria-Medina** and Alan C. Evans, 2016. Book: Neuropsychology and Neuropsychiatry of Neurodegenerative Disorders, edited by Menéndez-González M, Álvarez Avellón T. Chapter # 11: On the central role of brain connectivity in neurodegenerative disease progression. *Frontiers in Aging Neuroscience*.

**Presentations at International Events**

1. World Health Summit (Berlin, October 2018). **Yasser Iturria-Medina**. Vascular dysregulation: a key triggering factor of late onset Alzheimer’s Disease (**Invited Speaker**).
2. Organization for Human Brain Mapping Conference (Singapore, June 2018). **Yasser Iturria-Medina.** Multifactorial causal modeling of neurological disorders (**Invited Speaker**).
3. International Stroke Conference (Los Angeles, US, January 2018).
**Yasser Iturria-Medina**. Vascular Dysregulation: The First Phase of Alzheimer Disease? (**Invited Speaker**).
4. Workshop “Healthy Brains, Healthy Lives: Mechanistic models of Neurodegenerative disorders” (MNI, Montreal, Canada, July 10-11th, 2017). (**Invited Speaker**).
5. Workshop “Frontiers on MCI Research” (Kyoto, Japan, June 17th, 2017). **Yasser Iturria-Medina**. Towards Identifying and controlling causal mechanisms in neurodegeneration (**Invited Speaker**).
6. Symposium on “Vascular Factors in Dementia and Neurodegeneration” (London, July 2017). **Yasser Iturria-Medina**. Early vascular dysfunction and dementia: ADNI Study (**Invited Speaker**).
7. 19th International Conference on Medical Image Computing and Computer Assisted Intervention (Athens, Greece, October 17th, 2016). **Yasser Iturria-Medina**. On the intra-brain Propagation of Pathologic Functional Signals in Neurodegeneration (**Invited Speaker**).
8. XVIII Neuroimagen Meeting (Guanajuato, Mexico, October 6-7th, 2016). **Yasser Iturria-Medina**. Multifactorial Data-Driven Modeling of Neurodegenerative Disorders(**Invited Speaker**).
9. [The Feindel Brain Imaging Lecture Series](https://www.mcgill.ca/bic/training-events/feindel-brain-imaging-lecture-series) (Brain Imaging Center, McGill University, September 26th, 2016). **Yasser Iturria-Medina**. Towards a Multifactorial Characterization of Neurodegeneration (**Invited Speaker**).
10. 1th Progression Of Neurological Disease Workshop (University College London, 2016). UK, 8th February. **Yasser Iturria-Medina**. Towards a Multi-factorial Data-Driven Modeling of Neurodegeneration (**Invited Speaker**).
11. 4th European Conference on Clinical Neuroimaging (Rome 2015). Italy, March 23-24. **Yasser Iturria-Medina**. Epidemic Spreading Behavior of Misfolded Proteins as a Key Factor Controlling Neurodegenerative Progression (**Oral Presentation**).
12. International Workshop on Molecular Functional Imaging for Brain and Gynecologic Oncology (Fukui-2014). Japan, March 3-4, 2014. **Yasser Iturria-Medina**. Graph-based analyses of Anatomical Brain Networks on the Study of Brain Disorders (**Invited speaker**).
13. 11th Brain Connectivity Workshop (BCW’2012). China, June 6-8, 2012. **Yasser Iturria-Medina**. Anatomical Brain Networks on the Prediction of Abnormal Brain States (**Invited speaker**).
14. II International Congress on Bioinformatics and Neuroinformatics, Feb. 12-16, Havana, Cuba. **Iturria-Medina Y.**, E. J. Canales-Rodríguez, L. Melié-García, P. A. Valdés-Hernández and J. M. Bornot. A Graph Model for Assessing Brain Anatomical Connections using Diffusion Weighted MRI (**Oral Presentation**).

**Selected published abstracts (with posters)**

1. **Yasser Iturria-Medina,** Félix Carbonell, Roberto C Sotero, Alan C Evans, ADNI, 2017. Identifying and Reversing Multifactorial Interactive Mechanisms in Alzheimer’s Disease. Volume 13, Issue 7, Supplement, Page P124.
2. [Myriam Oliver](http://www.frontiersin.org/people/MyriamOliver/43967), [Manuel Carreiras](http://www.frontiersin.org/people/ManuelCarreiras/9022), [**Yasser Iturria-Medina**](http://www.frontiersin.org/people/YasserIturria_Medina/108045), [Pedro M. Paz-Alonso](http://www.frontiersin.org/Community/WhosWhoActivity.aspx?sname=&UID=0), 2016. Age of acquisition of the second language modulates structural and functional dynamics of bilingual reading. <http://www.frontiersin.org/10.3389/conf.fnins.2016.92.00025/event_abstract>
3. Khundrakpam B, Lewis J, **Iturria-Medina Y**, Chouinard-Decorte F, Evans A. Individual subject-based maturational coupling as indicator of brain development: A longitudinal MRI study. Int J Dev Neurosci. 2015;47(Pt A):52.
4. **Yasser Iturria-Medina**, Roberto C. Sotero, Paule J. Toussaint, Mélissa Savard, José María Mateos-Pérez, Alan C. Evans. Towards an Integrative Causal Description of Late-Onset Alzheimer´s Disease Progression. 2015 OHBM Annual Meeting, Hawaii.
5. M Savard, **Y Iturria-Medina**, C Madjar, I Leppert, A Labonté, AC Evans, P Rosa-Neto, J Poirier, J Breitner and the StoP-AD Research group. Grey matter mean diffusivity predicted by CSF ApoE, ApoA-I and tau levels. 2015 OHBM Annual Meeting, Hawaii.
6. Cécile Madjar, Mélissa Savard, **Yasser Iturria-Medina**, Ilana Leppert, Alan Evans, Richard Hoge, John Breitner, the Stop-AD Research Group. Cerebral blood-flow and mean diffusivity in subjects at high risk of Alzheimer’s disease. 2015 OHBM Annual Meeting, Hawaii.
7. Y Zeighami, M Ulla, M Dadar, **Y. Iturria-Medina**, K Larcher, DL Collins, AC Evans, A Dagher. Parkinson’s disease targets intrinsic brain networks. 2015 OHBM Annual Meeting, Hawaii.
8. **Yasser Iturria-Medina**, Roberto C. Sotero, Alan C. Evans. A Malfunctioning Aß Clearance System as a Major Factor associated with Alzheimer’s disease. 12th International Conference on Alzheimer's and Parkinson's Diseases and Related Neurological Disorders. Nice, France, March 18-22, 2015.
9. **Yasser Iturria-Medina**, Roberto C. Sotero, Alan C. Evans. Epidemic spreading behavior of Amyloid-ß proteins in healthy and diseased brains. 20th Human Brain Mapping Conference, Hamburg, Germany, June 8-12, 2014.
10. **Yasser Iturria-Medina**, Roberto C. Sotero, Alan C. Evans. Modeling intra-Brain amyloid-ß propagation via an epidemic spreading framework. 8th Human Amyloid Imaging Conference. Miami, Florida, January 15-17, 2014.
11. Paule Toussaint, **Yasser Iturria-Medina** and Alan C. Evans. Prediction of beta amyloid profile in Alzheimer’s disease. 20th Human Brain Mapping Conference, Hamburg, Germany, June 8-12, 2014.
12. Rosalia Dacosta-Aguayo, Manuel Graña, **Yasser Iturria-Medina** et al. Cognitive Recovery in Stroke Patients is Associated to Different Anatomical Connectivity Patterns. 20th Human Brain Mapping Conference, Hamburg, Germany, June 8-12, 2014.
13. Barry J. Bedell, Kristina DeDuck, **Yasser Iturria-Medina** and Alan C. Evans. Spread of beta-amyloid along anatomically connected pathways in happ transgenic mice. Alzheimer's & Dementia: The Journal of the Alzheimer's Association. Vol. 4 (4), pp. P893, July 2014.
14. DeDuck K, **Iturria-Medina Y**, Evans AC and Bedell BJ.Spread of Aß along anatomically connected pathways in hAPP transgenic mice. Alzheimer´s Association International Conference, Copenhagen, 2014.
15. Lorna García Pentón, Alejandro Perez Fernandez, **Yasser Iturria-Medina** and Manuel Carreiras, 2012. Anatomical connectivity changes in the bilingual brain. 18th Annual Meeting of the Organization for Human Brain Mapping, Beijing, China.
16. Pérez, A., **Iturria-Medina, Y.**, Morris, D., Canales-Rodríguez, E., Haroon, H., García, L., Augath, M., Logothetis, N., Melie-García, L. and Parker. Brain hemispheric structural efficiency and interconnectivity rightward asymmetry (Poster). XI International Conference on Cognitive Neuroscience. Frontiers Human Neuroscience. doi:10.3389/conf.fnhum.2011.207.00181. Mallorca, Spain, 2011.
17. Bobes-León M.A., Valdés-Sosa M., Santos Y., Sosa Y., Quiñones I., **Iturria-Medina Y.**, Belin P. Connectivity-Based Segmentation of Occipito-Temporal Face Selective Area. XI International Conference on Cognitive Neuroscience. Mallorca, Spain, 2011. Frontiers Human Neuroscience.
18. García-Pentón L, **Iturria-Medina Y.**, Alemán-Gómez Y., Canales-Rodríguez E., Carreiras M. Anatomical Changes in the Bilingual Brain: Combining Voxel-Based Morphometry (Vbm) and Diffusion Tensor Imaging (DTI). XI International Conference on Cognitive Neuroscience. Mallorca, Spain, 2011. Frontiers Human Neuroscience.
19. **Iturria-Medina Y.**, Ontivero-Ortega M., Canales-Rodríguez, E. J., Melie-García L, Valdés-Hernández P., Pérez-Fernández A. Complex Mouse Brain Anatomical Network Attributes Estimated via Diffusion- MRI Data and Graph Theory. V Latin American Congress on Biomedical Engineering CLAIB 2011, IFMBE Proceedings 33, www.springerlink.com (CD).
20. Erick Jorge Canales-Rodríguez, **Yasser Iturria-Medina**, Yasser Alemán-Gómez, Lester Melie-García. The deconvolution of finite q-space sampling effects in diffusion spectrum imaging. 16th Annual Meeting of the Organization for Human Brain Mapping Human Brain Mapping (Barcelona, 2010).
21. Lorna García Pentón, **Yasser Iturria-Medina**, Ileana Quiñones Gonzalez, Pedro Valdes Hernandez, Alejandro Perez-Fernandez, Antonieta Bobes-Leon y Mitchell Valdes-Sosa, 2010. Brain anatomical connections between neural regions of face processing: a combining fMRI and DTI study. 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.
22. Lester Melie-García1, Erick J. Canales-Rodríguez, Yasser Alemán-Gómez,
Ching Po-Lin, **Yasser Iturria-Medina**, Pedro Valdés-Hernández. Bayesian framework to characterize the intravoxel anisotropy in brain tissues. X International Workshop on Differential Equations, Number Theory, Data Analysis Methods and Geometry University of Havana, February 19-23, 2007.
23. Fernández-García, Y., **Iturria-Medina, Y.**, Ruiz, EC., Alemán, Y., Bobes, MA. Amnesic Mild Cognitive Impairment. Cognitive measurements in MRI and DTI study. 23 Conferencia Internacional de Alzheimer, Caracas, Venezuela, 2007.
24. **Iturria-Medina Y.**, E. J. Canales-Rodríguez, L. Melié-García, P. A. Valdés-Hernández and J. M. Bornot. A Graphical Model for Assessing Brain Anatomical Connections using Diffusion Weighted MRI. 1st British-Cuban Workshop on Neuroimaging, Nov. 20-23, 2006, Havana, Cuba.
25. **Yasser Iturria-Medina**, Pedro Valdes-Hernandez, Erick Canales-Rodriguez. 2005. Measures of anatomical connectivity obtained from neuro diffusion images. Presented at the 11th Annual Meeting of the Organization for Human Brain Mapping, June 12-16, 2005, Toronto, Ontario, Canada. Available on CD-Rom in NeuroImage, Vol. 26, No.1.
26. **Yasser Iturria-Medina**, Erick Canales-Rodríguez, Lester Melié-García, Pedro Valdés-Hernández. 2005. Bayesian formulation for fiber tracking. Presented at the 11th Annual Meeting of the Organization for Human Brain Mapping, June 12-16, 2005, Toronto, Ontario, Canada. Available on CD-Rom in NeuroImage, Vol. 26, No.1.
27. Erick Canales-Rodríguez, Lester Melie-García, Pedro Valdez-Hernández, **Yasser Iturria-Medina**, Yasser Alemán-Gómez1, Jorge Bouza-Dominguez. 2005. A new method for extracting information from intravoxel white matter structures distribution. Presented at the 11th Annual Meeting of the Organization for Human Brain Mapping, June 12-16, 2005, Toronto, Ontario, Canada. Available on CD-Rom in NeuroImage, Vol. 26, No.1.
28. Sotero R.C, Trujillo-Barreto N. J, **Iturria-Medina Y.** Validating neural mass models with anatomically constrained coupling. Presented at the 11th Annual Meeting of the Organization for Human Brain Mapping, June 12-16, 2005, Toronto, Ontario, Canada. Available on CD-Rom in NeuroImage, Vol. 26, No.1.
29. Roberto C. Sotero, Nelson J. Trujillo-Barreto and **Yasser Iturria-Medina.** Generation of visual evoked potentials based on a biophysical model of the integration of neuronal activity, EEG and BOLD responses. 9th International Conference on Cognitive Neuroscience, Sep. 5-10, 2005, Havana, Cuba.
30. **Iturria-Medina Y.**, E. J. Canales-Rodríguez, L. Melié-García, P. A. Valdés-Hernández and J. M. Bornot. A Graphical Model for Assessing Brain Anatomical Connections using Diffusion Weighted MRI. Scientific Programs and Abstracts Book. PS101. 9th International Conference on Cognitive Neuroscience, Sep. 5-10, 2005, Havana, Cuba.
31. **Iturria-Medina, Y.** and Valdés-Hernández P. De las Imágenes de la Difusión a la Conectividad Anatómica Cerebral. CNIC 2005 Book of Abstracts. ISBN: 959-7145-09-X.
32. Sotero, R. C., Trujillo-Barreto, N. J, **Iturria-Medina, Y**. Modelos neuronales de masa con restricciones anatómicas. CNIC 2005 Book of Abstracts. ISBN: 959-7145-09-X.
33. Bouza-Domínguez J. and **Iturria-Medina Y.** Diffuse Optical Imaging of Brain Activation using Complementary MRI Data: a New Formulation. 9th International Conference on Cognitive Neuroscience, Sep. 5-10, 2005, Havana, Cuba.
34. **Iturria-Medina Y.**, E. J. Canales-Rodríguez, L. Melié-García, P. A. Valdés-Hernández and J. M. Bornot. A Graphical Model for Assessing Brain Anatomical Connections using Diffusion Weighted MRI. 9th International Conference on Cognitive Neuroscience, Sep. 5-10, 2005, Havana, Cuba.

**F. MENTORING**

**Supervisory experience**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of Trainee** | **Program Type** | **Start date** | **End date** |
| Lin Sue-Jin | Postdoc, McGill | 8-2019 | 2-2021 |
| Majid Masoumi | Postdoc, McGill | 6-2019 | 6-2020 |
| Christophe Lenglos | Postdoc, McGill | 7-2019 | 12-2020 |
| Amir H. Shirazi | Postdoc, McGill | 1-2019 | Present |
| Quadri Adewale | PhD, Integrative Neuroscience Program, McGill | 1-2019 | Present |
| Ahmed F Khan | PhD, Integrative Neuroscience Program, McGill | 8-2018 | Present |
| Jill McCarthy | PhD (co-supervised), Integrative Neuroscience Program, McGill | 8-2017 | Present |
| Joshua Morse | PhD (co-supervised), Integrative Neuroscience Program, McGill | 8-2016 | Present |
| Liza Levitis | Master’s (co-supervised), Integrative Neuroscience Program, McGill | 6-2018 | Present |
| Heivet Hernández | Master's, Neuroscience. Havana. Cuba. | 4-2009 | 9-2013 |
| Alejandro OjedaKarla Batista | Master's, Neuroscience. Havana. Cuba. PhD, University of Havana, Cuba. | 9-200610-2013 | 12-2008Present |

**G. SCIENTIFIC JOURNALS**

Ad-hoc reviewer for (selected):

Frontiers (Editor)

NeuroImage

NeuroImage Clinical

Biological Psychiatry

PLoS Computational Biology

PLoS One

Computational Statistics and Data Analysis

Brain Connectivity

Frontiers in Neuroscience

Frontiers in Aging Neuroscience

**H. PROGRAMMING SKILLS**

Matlab, C/C++