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## CURRICULUM VITAE

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### A. Research keywords

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Computational neuroimaging, Developmental disorders, biophysical brain network modeling

### B. Education and Professionals

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2020-Present	Assistant professor, Center for Neuroscience Imaging Research, Institute for Basic Science, Department of Global Biomedical Engineering, Sungkyunkwan University, Suwon, South Korea
2019-Present	Research Scientist in the Center for the Developing Brain, Child Mind Institute, New York, USA
2018-2019	Postdoc in the Center for the Developing Brain, Child Mind Institute, New York, USA (PI: Dr. Michael P. Milham; Project: Connectome-based brain biotyping and network simulation in neurodevelopmental disorders)
2017-2018	Postdoc in Multimodal Imaging and Connectivity Analysis Laboratory, Montreal Neurological Institute, Canada (PI: Dr. Boris Bernhardt; Project: Neuroimaging studies of typical and atypical brain development)
2011-2016	<u>PhD in Integrated Program in Neuroscience</u> , McGill University, Canada. (Supervisor: Dr. Andrea Bernasconi; Thesis: Advanced multimodal imaging in epileptogenic malformations of cortical development)
2008-2010	<u>MSc in Neuroscience</u> , Seoul National University College of Natural Sciences, South Korea. (Supervisor: Dr. In Kyoon Lyoo; Thesis: Cerebellar deficits in opiate-dependent subjects: a voxel-based morphometric study)
2001-2007	<u>BSc in Computer Science/Cognitive Science</u> , Yonsei University, South Korea

### C. Peer-reviewed journal, conference proceeding and book chapter

: 37 papers and 1 book chapter, 1049 citations in total, h-index=20, i10-index=23, 12 first author, 25 co-authors

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1. **Hong SJ**, Vogelstein J, Gozzi A, Bernhardt BC, Yeo B.T.T, Milham MP, Di Martino A, *Towards Neurosubtypes in Autism*. *Biological Psychiatry* 2020 (in press) [IF=11.50]
2. Vos De Wael R, Benkarim O, Paquola C, Lariviere D, Royer J, Tavakol D, Xu T, **Hong SJ**, Langs G, Valk S, Mistic B, Milham MP, Margulies D, Smallwood J, Bernhardt BC. *BrainSpace: a toolbox for the analysis of macroscale gradients in neuroimaging and connectomics datasets*. *Communications biology* 2020. 3 (1), 103
3. Winston G, Vos SB, Caldaïrou B., **Hong SJ**, Czech M, Wood TC, Wastling SJ, Barker GJ, Bernhardt BC, Bernasconi N, Duncan JS, Bernasconi A. *Microstructural Imaging in Temporal Lobe Epilepsy: Diffusion Imaging Changes Relate to Reduced Neurite Density*. *NeuroImage: Clinical*. 2020 (in press) [IF=3.94]
4. Na HK, Lee HJ, **Hong SJ**, Lee DH, Kim KM, Lee HW, Heo K, Cho KH. *Volume change in amygdala enlargement as a prognostic factor in patients with temporal lobe epilepsy: A longitudinal study*. *Epilepsia* 2020. 61 (1), 70-80 [IF=5.07]
5. Wandschneider B, **Hong SJ**, Bernhardt BC, Bernasconi A, Koepp M, Bernasconi N. *Developmental neuroimaging markers co-segregate juvenile myoclonic epilepsy patients and unaffected siblings*. *Neurology*. 2019 93 (13), e1272-e1280 [IF=8.67]
6. Wang Z, Lariviere S, Xu Q, Vos de Wael R, **Hong SJ**, Wang Z, Xu Y, Zhu B, Bernasconi N, Bernasconi A, Zhang B, Zhang Z, Bernhardt BC. *Community-informed connectomics of the thalamocortical system in generalized epilepsy*. *Neurology*. 2019 (in press) [IF=8.67]
7. Paquola C, Vos De Wael R, Wagstyl K, Bethlehem RAI, **Hong SJ**, Seidlitz J, Bullmore ET, Evans AC, Mistic B, Margulies DS, Smallwood J, Bernhardt BC. *Microstructural and functional gradients are increasingly dissociated in transmodal cortices*. *Plos Biology* (in press) [IF=8.39]
8. Larivière S, Vos de Wael R, **Hong SJ**, Paquola C, Tavakol S, Lowe AJ, Schrader D, Bernhardt BC. *Multiscale Structure–Function Gradients in the Neonatal Connectome*. *Cerebral Cortex*. 2019 (in press) [IF=6.31]
9. **Hong SJ**, Vos de Wael R, Bethlehem R, Lariviere R, Paquola C, Valk SL, Di Martino A, Milham MP, Smallwood J, Margulies D, Bernhardt BC. *Atypical functional connectome hierarchy in autism*. *Nature Communication*. 2019, 10 (1):1022 [IF=12.35]
10. **Hong SJ**, Lee HM, Gill RS, Bernhardt BC, Bernasconi N, Bernasconi A. *A connectome-based mechanistic model of epileptogenic focal cortical developmental malformations*. *Brain*. 2019, 142 (3):688-699 (in press) [IF=10.84]
11. **Hong SJ**, Hyung B, Paquola C, Bernhardt BC. *The superficial white matter in autism and its role in connectivity anomalies and symptom severity*. *Cerebral Cortex*. 2019 [Epub ahead of print] [IF=6.31]
12. Vos de Wael R, Larivière S, Caldaïrou B, **Hong SJ**, Margulies DS, Jefferies E, Bernasconi A, Smallwood J, Bernasconi N, and Bernhardt BC. *Anatomical and microstructural determinants of*

- hippocampal subfield functional connectome embedding*. Proceedings of the National Academy of Sciences. 2018, 115(40):10154-10159 [IF=9.5]
13. Adler S, Blackwood M, Northam GB, Gunny R, **Hong SJ**, Bernhardt BC, Bernasconi A, Bernasconi N, Jacques T, Tisdall M, Cross JH, Baldeweg T. *Multimodal computational neocortical anatomy in pediatric hippocampal sclerosis*. Annals of Clinical and Translational Neurology. 2018 5(10): 1200–1210. [IF=NA]
  14. Gill RS, **Hong SJ**, Fadaie F, Caldaïrou B, Bernhardt BC, Barba C, Brandt A, Coelho VC, d'Incerti L, Lenge M, Semmelroch M, Bartolomei F, Cendes F, Deleo F, Guerrini R, Guye M, Jackson G, Schulze-Bonhage A, Mansi T, Bernasconi N, Bernasconi A. *Deep Convolutional Networks for Automated Detection of Epileptogenic Brain Malformations*. 21<sup>th</sup> MICCAI: International Conference on Medical Image Computing and Computer-Assisted Intervention, Granada, Spain, 2018 490-7. [IF=NA]
  15. Lariviere S, Vos de Wael R, Paquola C, **Hong SJ**, Misic B, Bernasconi N, Bernasconi A, Bonilha L, Bernhardt BC. *Microstructure-informed connectomics: enriching large-scale descriptions of healthy and diseased brains*. Brain connectivity. 2018 [IF=NA]
  16. Adler S, **Hong SJ**, Liu M, Baldeweg T, Cross JH, Bernasconi A, Bernhardt BC, Bernasconi N. *Topographic principles of cortical FLAIR signal in temporal lobe epilepsy*. Epilepsia. 2018; 59:627-35 [IF=5.07]
  17. **Hong SJ**, Valk SL, Di Martino A, Milham MP, Bernhardt BC. *Multidimensional neuroanatomical subtyping of autism spectrum disorder*. Cerebral Cortex. 2017: 1-11. [IF=6.31]
  18. **Hong SJ**, Bernhardt BC, Bernasconi N, Bernasconi A. *The spectrum of structural and functional network alterations in malformations of cortical development*. Brain. 2017, 140 (8):2133–43 (\* selected as an Editor's Choice article and comments from Epilepsy research) [IF=10.84]
  19. Gill RS, **Hong SJ**, Fadaie F, Caldaïrou B, Bernhardt BC, Bernasconi N, Bernasconi A. *Automated detection of epileptogenic cortical malformations using multimodal MRI*. 20<sup>th</sup> MICCAI Workshop: Deep Learning in Medical Image Analysis and Multimodal Learning for Clinical Decision Support, Canada. 2017. [IF=NA]
  20. Bernhardt BC, Fadaie F, Vos De Wael R, **Hong SJ**, Liu M, Guiot MC, Rudko DA, Bernasconi A, Bernasconi N. *Preferential susceptibility of limbic cortices to microstructural damage in temporal lobe epilepsy: A quantitative T1 mapping study*. Neuroimage. 2018 182:294-303 [IF=5.42]
  21. **Hong SJ**, Bernhardt BC, Gill RS, Bernasconi N, Bernasconi A. *Connectome-based pattern learning predicts histology and surgical outcome of epileptogenic malformations of cortical development*. 20<sup>th</sup> International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI), Canada. 2017 (accepted; \* selected for a travel award) [IF=NA]
  22. **Hong SJ**, Bernhardt BC, Caldaïrou B, Marie G, Hall J, Schrader D, Bernasconi N, Bernasconi A. *Multimodal profiling of focal cortical dysplasia type-II*. Neurology. 2017, 88:734-42 (\* selected for cover page) [IF=7.61]

23. Liu M, Bernhardt BC, **Hong SJ**, Caldairou B, Bernasconi A, Bernasconi N. *The superficial white matter in temporal lobe epilepsy: a key link between structural and functional network disruption*. Brain. 2016 139: 2431-2440. [IF=10.84]
24. Bernhardt BC, Bernasconi A, Liu M, **Hong SJ**, Caldairou B; Goubran M, Marie G, Hall J, Bernasconi N. *The spectrum of structural and functional imaging abnormalities in temporal lobe epilepsy*. Annals of Neurology. 2016 80(1):142-53. [IF=10.24]
25. **Hong SJ**, Liu M, Bernasconi A. *Computational neuroanatomy of epilepsy*. Chapter 6, Book "Imaging biomarkers in epilepsy" (Cambridge University Press) 2017. [IF=NA]
26. Kulaga-Yoskovitz J, Bernhardt BC, **Hong SJ**, Mansi T, Liang K, Kouwe A, Smallwood J, Bernasconi A, Bernasconi B. *Multi-contrast and submillimetric 3-Tesla hippocampal subregional segmentation protocol and data repository*. Scientific data. 2015 doi:10.1038 [IF=4.84]
27. **Hong SJ**<sup>†</sup>, Bernhardt BC<sup>†</sup>, Schrader D, Bernasconi N, Bernasconi A. *Whole-brain MRI phenotyping in dysplasia-related frontal lobe epilepsy*. Neurology. 2015, 86: 643-50 († first co-author) [IF=7.61]
28. **Hong SJ**, Bernhardt BC, Schrader D, Caldairou B, Bernasconi N, Bernasconi A. *MRI-based lesion profiling of epileptogenic cortical malformations*. 18<sup>th</sup> International Conference on MICCAI. 2015, LNCS 9350:501-510 (\* Selected for 2015 student travel award) [IF=NA]
29. Bernhardt BC, **Hong SJ**, Bernasconi A, Bernasconi N. *MRI pattern learning in temporal lobe epilepsy: Classification and prognostics*. Annals of Neurology. 2015, 77(3):436-46. [IF=10.24]
30. Bernhardt BC, Bernasconi N, **Hong SJ**, Dery S, Bernasconi A. *Subregional mesiotemporal network topology is altered in temporal lobe epilepsy*. Cerebral Cortex. 2015 26(7):3237-48. [IF=6.31]
31. Kim HS, Caldairou B, Hwang JW, Mansi T, **Hong SJ**, Bernasconi N, Bernasconi A. *Accurate cortical tissue classification on MRI by modeling cortical folding patterns*. Human Brain Mapping. 2015, 36(9):3563-74. [IF=4.93]
32. **Hong SJ**, Kim H, Schrader D, Bernasconi N, Bernhardt BC and Bernasconi A, *Automated detection of cortical dysplasia type II in MRI-negative epilepsy*. Neurology 2014, 83(1):48-55 [IF=7.61]
33. Caciagli L, Bernhardt BC, **Hong SJ**, Bernasconi A, Bernasconi N. *Functional network alteration and their structural substrate in drug-resistant epilepsy*. Frontiers in Neuroscience. 2014, 8:411 [IF=3.88]
34. Bernhardt BC, **Hong SJ**, Bernasconi A and Bernasconi N, *Imaging structural and functional brain networks in temporal lobe epilepsy*. Frontier in Human Neuroscience. 2013, 7:624 [IF=2.87]
35. Voets NL, Beckmann CF, Cole DM, **Hong SJ**, Bernasconi A and Bernasconi N, *Structural substrates for resting network disruption in temporal lobe epilepsy*. Brain. 2012, 135:2350-7 [IF=10.84]

36. Kim HJ, Kim NK, Kim SH, **Hong SJ**, Park KM, Lim Sabina, Park JM, Na BJ, Chae YB, Lee JC, Yeo SJ, Choe IH, Cho SY, Cho KG, *Sex difference in amygdala subregions: Evidence from subregional shape*. *Neuroimage*. 2012, 60:2054-61 [IF=5.42]
37. Kim HJ, Kim JE, Cho G, Song IC, Bae S, **Hong SJ**, Yoon SJ, Lyoo IK, Kim TS, *Associations between anterior cingulate cortex glutamate and gamma-aminobutyric acid concentrations and the harm avoidance temperament*. *Neuroscience Letters*. 2009, 464:103-107 [IF=2.16]

#### **D. Under review, preprint, in preparation**

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1. **Hong SJ**<sup>†</sup>, Xu T<sup>†</sup>, Nikolaidis A, Smallwood J, Margulies DS, Bernhardt BC, Vogelstein J, Milham MP. *Toward a connectivity gradient-based framework for reproducible biomarker discovery*. bioRxiv († first co-author; preprint; under review) 2020. 10.1101/2020.04.15.043315
2. Kim SY, Liu M, **Hong SJ**, Toga AW, Barkovich J, Xu D, Kim H, *Network-level structural covariance of cortical folding throughout neurodevelopment of preterm neonates with severe perinatal injuries* (under review)
3. Xu T, Nenning K-H, Schwartz E, **Hong SJ**, Vogelstein J, Fair D, Smallwood J, Margulies DS, Schroeder C, Milham MP, Langs G, *Cross-species functional alignment reveals evolutionary hierarchy within the connectome* (preprint; under review) 2019. 10.1101/692616
4. Deleo F<sup>†</sup>, **Hong SJ**<sup>†</sup>, Bernhardt BC, Bernasconi N, Bernasconi A. *Whole-brain multimodal MRI phenotyping of periventricular nodular heterotopia*. († first co-author; minor revision)
5. Dong D, Yao D, Wang Y, **Hong SJ**, Genon S, Xin F, Jung KS, He H, Chang X, Duan M, Bernhardt BC, Margulies DS, Sepulcre J, Eickhoff SB, Luo C. *Altered Sensorimotor-to-Transmodal Hierarchical Organization in Schizophrenia* (preprint; under review) 2020. 10.1101/2020.03.06.980607
6. Fadaie F, Lee HM, Caldairou B, Gill R, Bernhardt BC, **Hong SJ**, Bernasconi A, Bernasconi N *Connectome-based mapping of altered functional hierarchy in temporal lobe epilepsy*. (in preparation)
7. Lee HM, Gill R, Fadaie F, Caldairou B, Bernhardt BC, **Hong SJ**, Bernasconi N, Bernasconi A *Structural variation within and across Type-II focal cortical dysplasias*. (in preparation)
8. **Hong SJ**, Lee HM, Gill RS, Bernhardt BC, Bernasconi N, Bernasconi A. *Focal cortical dysplasia: relation between lesion topography, sulcal root and genetic expression*. (in preparation)
9. **Hong SJ**, Lee HM, Fadaie F, Gill RS, Bernhardt BC, Bernasconi N, Bernasconi A. *Translating the Vogt-Vogt myeloarchitectonic map to the 3D cortical surface in the human brain*. (in preparation)
10. **Hong SJ**, Wang Y, Vos de Wael R, Park BY, Paquola C, Bethlehem R, Milham MP, Di Martino A, Bernhardt BC. *Cognitive imbalances in autism differentially affect macroscale and microcircuit brain organization*. (in preparation)
11. **Hong SJ**, Sisk L, Caballero C, Mekhanik A, Roy AK, Milham MP, Gee DG. *Cross-modal integration and decomposition of the complex relationships between the environment and brain development in school-aged youth*. (in preparation)

## E. Honors, awards and grant

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- 2019 NARSAD Young Investigator award, Brain-Behavior Research Foundation (\$70,000 USD)
- 2018 Young Investigator Award, 72<sup>nd</sup> American Epilepsy Society, USA (\$1,200 USD)
- 2018 Canadian Institutes of Health Research, Postdoc Fellowship (\$50,000 CAD × 3ys)
- 2018 Simon Groom Travel Award, Montreal Neurological Institute (\$1,000 CAD)
- 2017 Jeanne Timmins Fellowship, Montreal Neurological Institute (\$40,000 CAD × 2ys)
- 2017 Travel award, 20<sup>th</sup> International Conference on MICCAI (\$1000 CAD)
- 2017 Canadian League Against Epilepsy, Post-Graduate Training Fellowship (\$65,000 CAD)
- 2017 Organization for Human Brain Mapping, Merit Abstract Award, Canada (\$2,000 CAD)
- 2016 American Epilepsy Society, Jack Pellock Award, Houston, USA (\$1,500 USD)
- 2016 Top trainee in Canadian League Against Epilepsy, Canada (\$1000 CAD)
- 2015 Jeanne Timmins Costello Studentship, Montreal Neurological Institute (\$10,000 CAD)
- 2015 Canadian League Against Epilepsy, Publication award for student (\$1000 CAD)
- 2015 Student travel award, 18<sup>th</sup> International Conference on MICCAI (\$1000 USD)
- 2015 Best poster presentation, 31<sup>st</sup> International Epilepsy Congress, Istanbul
- 2014 Grass Young Investigator Award, 68<sup>th</sup> American Epilepsy Society, Seattle (\$1000 USD)
- 2014 Desjardins Outstanding Student Award, Montreal Neurological Institute (\$20,000 CAD)
- 2013 Simon Groom Travel Award, Montreal Neurological Institute (\$1000 CAD)

## F. Talks

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- 2020.08 *Advanced neuroimaging-based phenotyping in autism spectrum disorder: categorical vs. dimensional approach.* 23<sup>rd</sup> Annual meeting of Korean Society for Brain and Neural Science, Seoul, Korea
- 2020.06 *Toward A Connectivity Gradient-based Framework for Reproducible Biomarker Discovery,* 26th Annual meeting for the Organization for Human Brain Mapping, Montreal, Canada
- 2020.05 *Towards Neurosubtyping of Autism,* Annual Meeting of International Society for Autism Research, Seattle, Washington
- 2020.03 *Connectome Analysis in Brain Disorders with Focal Lesions.* Children National Hospital, Washington DC, Brain Plasticity Seminar.
- 2019.12 *Advanced Computational Neuroimaging in Atypical Brain Development,* Georgetown University, Washington DC, Seminar
- 2019.06 *Translating the Vogt-Vogt myeloarchitectonic map to the 3D cortical surface in the human brain,* 25th Annual meeting for the Organization for Human Brain Mapping, Rome, Italy
- 2019.05 *Trends in neuroimaging of developmental disorders.* Seminar at Busan Paik Hospital, Inje University, Busan, South Korea.

- 2019.05 *Update on epilepsy imaging*. Presidential Symposium and Parallel session. Korean Child Neurology Society, 2019 Annual Meeting, Busan, South Korea
- 2019.05 *Translational Neuroimaging in Atypical Brain Development: From mechanisms to clinical application*, CNIR Sungkyunkwan University, South Korea
- 2019.04 *Structural and functional neuroanatomy of autism spectrum disorders*. International Society for Autism Research, 2019 Annual Meeting, Montreal, Canada
- 2019.02 *Advanced neuroimaging in epilepsy and autism*. Seminar at Center for Biomedical Imaging and Neuromodulation, Nathan Kline Institute, New York, USA
- 2018.12 *Relation between lesion topography and sulcal pits in focal cortical dysplasia type-II*. Pediatric Highlight. American Epilepsy Society, Annual meeting, New Orleans, USA
- 2018.12 *Multimodal MRI phenotyping of Focal cortical dysplasia*. Special Interest Group. American Epilepsy Society, Annual meeting, New Orleans, USA
- 2018.09 *The superficial white matter in autism and its role in connectivity anomalies and symptom severity*. 6<sup>th</sup> Biennial Conference on Brain Connectivity, Montreal Canada
- 2017.12 *Atypical functional connectome hierarchy in autism spectrum disorder*. Large scale trends in cortical organization, workshop, Leipzig, Germany
- 2017.12 *Multimodal MRI phenotyping of Frontal Lobe Epilepsy*. American Epilepsy Society, Annual meeting, Washington DC, USA
- 2017.06 *Multidimensional neuroanatomical subtyping of autism spectrum disorders*. Human Brain Mapping, Annual meeting, Vancouver, Canada
- 2017.04 *Connectome-based pattern learning predicts histology and surgical outcome of epileptogenic malformations of cortical development*. Epilepsy day. Montreal Neurological Institute, McGill University, Montreal, Canada
- 2016.12 *Structural-Functional Brain Networks in the Spectrum of Cortical Malformation*. American Epilepsy Society, Annual meeting, Houston, Texas, USA
- 2016.10 *Gradual Alterations of Structural-Functional Brain Networks in the Spectrum of Cortical Malformations*. Canadian League Against Epilepsy, Annual scientific meeting, Quebec City, Canada
- 2016.10 *Statistical Analysis for Neuroimaging Data*. Canadian League Against Epilepsy, Annual scientific meeting, Quebec City, Canada
- 2016.10 *Neuroimaging of Cortical Malformations*, Brain Imaging Center Lecture in Montreal Neurological Institute and Hospital, Canada
- 2016.06 *Multimodal Imaging in Cortical Malformation*, KBRI, Daegu, South Korea
- 2016.05 *Advanced Multimodal Imaging in Epileptogenic Cortical Malformation*, PhD defense, Montreal Neurological Institute and Hospital, Canada
- 2015.04 *Multicontrast MRI profiling of focal cortical dysplasia type-II*, Epilepsy day. Montreal Neurological Institute, McGill University, Montreal, Canada

- 2015.12 *Focal Cortical Dysplasia Type-II: MRI-based Profiling and Subtype Prediction*, 2015 American Epilepsy Society 69th Annual Meeting, Pediatric Epilepsy Highlights presentation, Philadelphia, USA
- 2014.12 *Automated Detection of Cortical Dysplasia In MRI-Negative Epilepsy: Class II Diagnostic Evidence*, 2014 American Epilepsy Society 68th Annual Meeting, Seattle, USA

## H. Ad-hoc manuscript review

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American Journal of Psychiatry, Brain, Neurology, NeuroImage, Human Brain Mapping, Cerebral Cortex, Social Cognitive and Affective Neuroscience, American Journal of Neuroradiology, Epilepsia, Epilepsy Research, NeuroImage: Clinical, Scientific report, IEEE Transactions of Medical Imaging, Plos One

## J. References

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Neda Ladbon Bernasconi, MD PhD

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Michael P. Milham, MD PhD

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Phyllis Green and Randolph Cowen Scholar  
Director, Center for the Developing Brain  
Child Mind Institute

Director, Center for Biomedical Imaging and  
Neuromodulation  
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