

CURRICULUM VITAE

Yong Jeong, MD, Ph.D

Present Positions:

- Associate Professor, KAIST
Department of Bio and Brain Engineering,
Program of Brain and Cognitive Engineering,
Graduate School of Medical Science and Engineering,
Graduate Program for Future Strategy
Tel : +82-42-350-4324
Mobile: +82-10-8003-1225
Fax : +82-42-350-4310
E-mail: yong@kaist.ac.kr, yong@kaist.edu
Lab: +82-42-350-4364
Lab manager: +82-42-350-5364
KIHST: +82-42-350-7264, 7269
Google Scholar: <http://scholar.google.com/citations?user=zsVfq6sAAAAJ&hl=en>
Research ID: <http://www.researcherid.com/rid/C-1677-2011>
Mendely: <http://www.mendeley.com/profiles/yong-jeong2/>
Orcid: <http://orcid.org/0000-0002-5907-3787>
- Director, KI for Health Science and Technology (KIHST)
- Director, Dr.M Smart Mobile Healthcare Center
- Director, Neuro-Vascular Disorder Research Center (NVRC funded by NRF)
- Director, Laboratory for Cognitive Neuroscience and NeuroImaging (ibrain.kaist.ac.kr)
- Faculty, Department of Neurology, KAIST Pappalardo Clinic



Research Field:

- Neurophysiology
- Cognitive Neuroscience and Neuropsychology
- Clinical Neurology (neurodegenerative disease, neurovascular disease)
- Functional Neuroimaging
- Brain mapping and modeling
- Brain network
- Bioengineering (biosignals)

Education:

- Ph.D (in Neurophysiology), Yonsei University, Seoul, Korea, 1997
- Master in Science (MS), Yonsei University, Seoul, Korea, 1993
- MD, Yonsei University College of Medicine, Seoul, Korea, 1991

Professional Career

- Adjunct professor, Department of Neurology, Sungkyunkwan University Samsung Medical Center, September 1, 2005 – current

- Visiting Professor, Department of Bio and Brain Engineering, September 1, 2005 – May 31, 2007
- Research and Clinical Fellow, University of Florida, August 1, 2003 – August 31, 2005
- Research and Clinical Fellow, Samsung Medical Center, Sungkyunkwan University, Seoul, Korea, March 1, 2002 – July 31, 2003
- Neurology Residency, Severance Hospital, Yonsei Medical Center, Yonsei University College of Medicine, Seoul, Korea, March 1, 1998 - February 28, 2002
- Internship, Severance Hospital, Yonsei Medical Center, Yonsei University College of Medicine, Seoul, Korea, May 1, 1997 – February 28, 1998
- Researcher, National Institute of Toxicological Research, Korea Food and Drug Administration, April 28, 1994 - April 25, 1997
- Research and Teaching Assistant, Department of Physiology, Yonsei University College of Medicine, Seoul, Korea, March 1, 1991 – February 28, 1994

Degree and Qualification:

- Board of Neurology (No. 780), granted by Ministry of Health and Welfare, Korea, 2002
- ECFMG Certification (No.0-469-234-9), 1998
- Ph.D, conferred by Yonsei University, Seoul, Korea, 1997
- MS, conferred by Yonsei University, Seoul, Korea, 1993
- MD (No. 43694), granted by Ministry of Health and Welfare, Korea, 1991

Society Memberships and Services:

- Society for Neuroscience, member
- Organization for Human Brain Mapping, member
- Institute of Complex Medical Engineering, councilor
- Korean Neurological Association, Former Academic committee
- Korean Dementia Association, Board of Director
- Korean Human Brain Mapping Society, Chair of general affairs committee, former academic and strategy committee
- The Korean Society for Cognitive Science, former Organization committee
- Korean Society of Medical and Biological Engineering, Academic committee
- The Korean Society for Brain and Neural Science, Member
- Korean Society for Clinical Neurophysiology, Former academic committee
- IBEC 2015, Scientific Program Committee
- Biomag 2016, Organization Committee
- The 10th ICME International Conference on Complex Medical Engineering (ICME 2016), Organizing Committee Co-Chair
- Korean Brain Society, Former Chair of Planning Committee

Academic and Public Services

- Journal of Alzheimer's disease, former Associate Editor
- Korea Food and Drug Administration, Consultant on Biomedical Devices
- National Research Foundation of Korea, Review Board
- Institute of Civil-military Technology Cooperation, former Consultant
- Ministry of Health and Welfare, National Dementia Research Committee, Member
- Ministry of Science, Technology and ICT, National Brain Research Working Committee, Member

- KFDA, Medical Instrument Safety Committee, Member

Awards

- Siemens Academic Excellence Award conferred by Korean Society of Human Brain Mapping, 2016
- Research Award conferred by Korea Clinical Neurophysiology Society, 2014
- President of Korea Medical Association Award, 1991

Publications:

International Journal

1. Lee D, Lee P, Seo SW, Rho JH, Oh M, Oh JS, Oh SJ, Kim JS, Jeong Y*. Neural substrates of cognitive reserve in Alzheimer's disease spectrum and normal aging. *Neuroimage*. 2018 Nov 29 doi:10.1016/j.neuroimage.2018.11.053
2. Kim HR, Lee P, Seo SW, Rho JH, Oh M, Oh JS, Oh SJ, Kim JS, Jeong Y*. Comparison of Amyloid β and Tau Spread Models in Alzheimer's disease. *Cereb Cortex* (accepted)
3. Park MH, Lee JY, Park KH, Jung IK, Kim KT, Lee YS, Ryu HH, Jeong Y, Kang M, Schwaninger M, Gulbins E, Reichel M, Kornhuber J, Yamaguchi T, Kim HJ, Kim SH, Schuchman EH, Jin HK, Bae JS*. Vascular and Neurogenic Rejuvenation in Aging Mice by Modulation of ASM. *Neuron*. 2018 Sep 22. pii: S0896-6273(18)30783-9. doi:10.1016/j.neuron.2018.09.010.
4. Song M, Kang M, Lee H, Jeong Y*, Paik SB*. Classification of Spatiotemporal Neural Activity Patterns in Brain Imaging Data. *Sci Rep*. 2018 May 29;8:8231. doi:10.1038/s41598-018-26605-z
5. Lee JO, Lee ES, Kim JS, Lee YB, Jeong Y, Choi BS, Kim JH, Staab JP. Altered brain function in persistent postural perceptual dizziness: A study on resting state functional connectivity. *Hum Brain Mapp*. 2018 Aug;39(8):3340-3353. doi:10.1002/hbm.24080.
6. Yoon JH, Jeong Y, Na DL. Medial-Vowel Writing Difficulty in Korean Syllabic Writing: A Characteristic Sign of Alzheimer's Disease. *J Clin Neurol*. 2018 Apr;14(2):179-185. doi: 10.3988/jcn.2018.14.2.179.
7. Kang M, Lee YB, Gohel B, Yoo K, Lee P, Chung J, Jeong Y*. Momentary level of slow default mode network activity is associated with distinct propagation and connectivity patterns in the anesthetized mouse cortex. *J Neurophysiol*. 2018 Feb 1;119(2):441-458. doi: 10.1152/jn.00163.2017.
8. Ghahremani M, Yoo J, Chung SJ, Yoo K, Ye JC*, Jeong Y*. Alteration in the local and global functional connectivity of resting state networks in Parkinson's disease. *J Mov Disord* 2018;11(1):13-23. doi:10.14802/jmd.17061
9. Choung OH, Lee SW*, Jeong Y*. Exploring Feature Dimensions to Learn a New Policy in an Uninformed Reinforcement Learning Task. *Sci Rep*. 2017 Dec 15;7:17676. doi:10.1038/s41598-017-17687-2

10. Lee ES, Yoon JH, Choi JY, Adndika, F, Lee T, Jeong Y*. A Mouse Model of Subcortical Vascular Dementia Reflecting Degeneration of Cerebral White Matter and Microcirculation. *J Cereb Blood Flow Metab.* (E-pub) doi: 10.1177/0271678X17736963.
11. Chung J, Yoo K, Lee P, Kim CM, Rho JH, Park JE, Kim SJ, Seo SW, Shin JH, Seong JK*, Jeong Y*. Normalization of Cortical Thickness Measurements across Different T1 Magnetic Resonance Imaging Protocols by Novel W-Score Standardization. *NeuroImage* 2017 Oct 1. 224-236 doi: 0.1016/j.neuroimage.2017.07.053
12. Lee H, Jung S, Lee P, Jeong Y*. Altered intrinsic functional connectivity in the latent period of epileptogenesis in a temporal lobe epilepsy model. *Exp Neurol.* 2017 Jul 17. pii: S0014-4886(17)30181-4. doi: 10.1016/j.expneurol.2017.07.007.
13. Gohel B, Lee P, Kim M-Y, Kim K, Jeong Y*. MEG based functional connectivity: Application of ICA to alleviate signal leakage. *IRBM*, 2017 June;38(3):127-137. doi:10.1016/j.irbm.2017.03.002
14. Sohn WS, Lee TY, Yoo K, Yun J-Y, Hur J-W, Yoon YB, Seo SW, Na DL, Jeong Y*, Kwon JS*. Node Identification using Inter-Regional Correlation Analysis for Mapping Detailed Connections in Resting State Networks. *Front Neurosci*, 2017, 11:00238 doi: 10.3389/fnins.2017.00238
15. Choi JY, Jeong Y*. Elevated emotional contagion in a mouse model of Alzheimer's disease is associated with increased synchronization in the insula and amygdala. *Sci Rep.* 2017 April 07;7:46262. doi:10.1038/srep46262
16. Yoon JH, Lee ES, Jeong Y*. In vivo Imaging of the Cerebral Endothelial Glycocalyx in Mice. *J Vasc Res* 2017 April 01;54:59-67. Doi: 10.1159/000457799.
17. Lee P, Ryoo H, Park J*, Jeong Y*. Morphological and Microstructural Changes of the Hippocampus in Early MCI: ADNI study. *J Clin Neurol* 2017 April;13(2):144-154. doi:10.3988/jcn.2017.13.2.144
18. Park M, Jung H, Jeong Y, Jeong KH*. Plasmonic Schirmer Strip for Human Tear-Based Gouty Arthritis Diagnosis Using Surface-Enhanced Raman Scattering. *ACS Nano.* 2017 Jan 24;11(1):438-443. doi: 10.1021/acsnano.6b06196.
19. Yoo K, Lee P, Chung MK, Sohn WS, Chung SJ, Na DL, Ju D, Jeong Y*. Degree-based statistic and center persistency for brain connectivity analysis. *Hum Brain Mapp.* 2017 Jan;38(1):165-181. doi: 10.1002/hbm.23352.
20. Yu H, Lee P, Jo YJ, Lee KR, Tuchin V, Jeong Y, Park YK*. Collaborative effects of wavefront shaping and optical clearing agent in optical coherence tomography. *J Biomed Opt.* 21(12), 121510 (Oct 28, 2016). doi:10.1117/1.JBO.21.12.121510
21. Lee M, Lee E, Jung J, Yu H, Kim K, Yoon J, Lee S, Jeong Y*, Park YK*. Label-free optical quantification of structural alterations in Alzheimer's disease. *Sci Rep.* 2016 Aug 3;6:31034. doi: 10.1038/srep31034. PubMed PMID: 27485313.

22. Chung J, Yoo KS, Kim EJ, Na DL, Jeong Y*. Glucose Metabolic Brain Networks in Early-Onset vs. Late-Onset Alzheimer's Disease. *Front. Aging Neurosci.*, 30 June 2016 8:00159 doi: 10.3389/fnagi.2016.00159
23. Gohel B, Lee P, Jeong Y*. Modality-specific spectral dynamics in response to visual and tactile sequential shape information processing tasks: An MEG study using multivariate pattern classification analysis. *Brain Res.* 2016 Aug 1644:39-52.
24. Yu H, Lee P, Lee K, Jang J, Lim J, Jang W, Jeong Y*, Park YK*. In vivo deep tissue imaging using wavefront shaping optical coherence tomography. *J Biomed Opt.* 2016 Oct 1;21(10):101406. doi: 10.1117/1.JBO.21.10.101406. *co-correspondence
25. Lee ES, Yoo K, Lee YB, Chung J, Lim JE, Yoon B, Jeong Y*; Alzheimer's Disease Neuroimaging Initiative. Default Mode Network Functional Connectivity in Early and Late Mild Cognitive Impairment: Results From the Alzheimer's Disease Neuroimaging Initiative. *Alzheimer Dis Assoc Disord.* 2016 Oct-Dec;30(4):289-296.
26. Kim S, Kim S, Khalid A, Jeong Y, Jeong B, Lee ST, Jung KH, Chu K, Lee SK, Jeon D. Rhythmical Photic Stimulation at Alpha Frequencies Produces Antidepressant-Like Effects in a Mouse Model of Depression. *PLoS One.* 2016 Jan 4;11(1):e0145374. doi: 10.1371/journal.pone.0145374. eCollection 2016.
27. Lee YB, Lee J, Tak S, Lee K, Na DL, Seo SW, Jeong Y*, Ye JC*. Alzheimer's Disease Neuroimaging Initiative. Sparse SPM: Group Sparse-dictionary learning in SPM framework for resting-state functional connectivity MRI analysis. *Neuroimage.* 2016 Jan 15;125:1032-45. doi: 10.1016/j.neuroimage.2015.10.081. Epub 2015 Oct 31 *co-correspondence
28. Lee BH, Lim TH, Yoon YW, Yenari MA, Jeong Y. Post-injury neuroplasticity in central neural networks. (Editorial) *Neural Plasticity.* vol. 2015, Article ID 857085, 2 pages, 2015. doi:10.1155/2015/857085
29. Sohn WS, Yoo K, Lee YB, Seo SW, Na DL, Jeong Y*. Influence of ROI selection on Resting Functional Connectivity: An Individualized Approach for Resting fMRI Analysis. *Frontiers in Neuroscience.* 9:280. doi: 10.3389/fnins.2015.00280.
30. Yoo SW, Guevara P, Jeong Y, Yoo K, Shin JS, Mangin JF, Seong JK. An Example-Based Multi-Atlas Approach to Automatic Labeling of White Matter Tracts. *PLoS One.* 2015 Jul 30;7:e0133337. doi:10.1371/journal.pone.0133337.
31. Kim H, Yoo K, Na DL, Seo SW, Jeong J*, Jeong Y*. Non-monotonic reorganization of brain networks with Alzheimer's disease progression. *Front Aging Neurosci.* 2015 Jun 9;7:111. doi: 10.3389/fnagi.2015.00111. eCollection 2015. *co-correspondence
32. Finney GR, Williamson JB, Burtis B, Drago V, Mizuno T, Jeong Y, Crucian GP, Haque S, Heilman KM. The Effects of Chronic Right Hemispheric Damage on the Allocation of Spatial Attention: Alterations of Accuracy and Reliability. *J Int Neuropsychol Soc.* 2015 Jun 21:1-5
33. Yoo SW, Han CE, Shin JS, Seo SW, Na DL, Kaiser M, Jeong Y*, Seong JK*, A Network flow-based analysis of cognitive reserve in normal ageing and Alzheimer's Disease. *Scientific Report.* 2015 May 20;5:10057. doi: 10.1038/srep10057. *co-correspondence

34. Jung S, Jeong Y*, Jeon D*. Epileptic activity during early postnatal life in the AY-9944 model of atypical absence epilepsy. *Cell Calcium*. 2015 May;57(5-6):376-84. doi:10.1016/j.ceca.2015.04.001. Epub 2015 Apr 8. *co-correspondence
35. Lee J, Kim Y, Jeong Y, Na DL, Kim JW, Lee KH, Lee D. Inference of brain pathway activities for Alzheimer's disease classification. *BMC Med Inform Decis Mak*. 2015;15 Suppl 1:S1. doi: 10.1186/1472-6947-15-S1. Epub 2015 May 20. PubMed PMID: 26044913; PubMed Central PMCID: PMC4460780.
36. Yoo K, Chung SJ, Kim HS, Choung OH, Lee YB, Kim MJ, You S, Jeong Y*. Neural substrates of motor and non-motor symptoms in Parkinson's disease: a resting FMRI study. *PLoS One*. 2015 Apr 24;10(4):e0125455. doi: 10.1371/journal.pone.0125455. eCollection 2015. PubMed PMID: 25909812.
37. Yoon HJ, Lee ES, Kang M, Jeong Y*. Park JH*. In vivo multi-Photon luminescence imaging of cerebral vasculature and blood-brain barrier integrity using gold nanoparticles. *Journal of Materials Chemistry B*. 2015 Mar;3:2935-3938. doi: 10.1039/C4TB01759E. *co-correspondence
38. Kim J, Jeong Y*. *In vivo* image of cerebral amyloid angiopathy in Alzheimer's disease mouse model. *J Stroke* 2015 Jan 30;17(1):87-88. Doi: 10.5853/jos.2015.17.1.87
39. Lee E, Lee JE, Yoo K, Hong JY, Oh J, Sunwoo MK, Kim JS, Jeong Y, Lee PH, Sohn YH, Kang SY. Neural correlates of progressive reduction of bradykinesia in de novo Parkinson's disease. *Parkinsonism Relat Disord*. 2014 Dec;20(12):1376-81. doi: 10.1016/j.parkreldis.2014.09.027.
40. Park SG, Ahn MS, Oh YJ, Kang M, Jeong Y, Jeong KH. Nanoplasmonic Biopatch for in vivo Surface Enhanced Raman Spectroscopy. *Biochip J*. 2014 Dec 20;8(4):289-294. doi: 10.1007/s13206-014-8407-5.
41. Gohel B, Jeong Y*. Sensory Modality Specific Spatio-temporal Dynamics in Response to Counting Task. *Neurosci Lett*. 2014 Aug 15;581:20-25. doi:10.1016/j.neulet.2014.08.015.
42. Kim TE, Lee DH, Kim YJ, Mok JO, Kim CH, Park JH, Lee TK, Yoo K, Jeong Y, Lee Y, Park SA. The relationship between cognitive performance and insulin resistance in non-diabetic patients with mild cognitive impairment. *Int J Geriatr Psychiatry*. 2014 Jul 25;30(6):551-557. doi: 10.1002/gps.4181.
43. Jo S, Yarishkin O, Hwang YJ, Chun YE, Park M, Woo DH, Bae JY, Kim T, Lee J, Chun H, Park HJ, Lee DY, Hong J, Kim HY, Oh SJ, Park SJ, Lee H, Yoon BE, Kim Y, Jeong Y, Shim I, Bae YC, Cho J, Kowall NW, Ryu H, Hwang E, Kim D, Lee CJ. GABA from reactive astrocytes impairs memory in mouse models of Alzheimer's disease. *Nat Med* 2014 Aug; 20(8): 886-896. doi: 10.1038/nm.3639. [Epub 2014 June 29]
44. Sohn WS, Yoo K, Na DL, Jeong Y*. Progressive changes in hippocampal resting state connectivity across cognitive impairment: a cross-sectional study from normal to Alzheimer's disease. *Alzheimer Dis Assoc Disord*. 2014;28(3):239-46. doi: 10.1097/WAD.000000000000027. PubMed PMID: 24614267.

45. Noh HJ, Seo SW, Park JE, Jeong Y, Kim GH, Noh Y, Cho H, Kim HJ, Yoon CW, Ye BS, Na DL. Blood Viscosity in Subcortical Vascular Mild Cognitive Impairment with versus without cerebral amyloid burden. *J Stroke Cerebrovasc Dis* 2014 May-Jun;23(5):958-66. doi: 10.1016/j.jstrokecerebrovasdis.2013.08.004. Epub 2014 Feb 28.
46. Kim J, Jeong Y*. Augmentation of sensory-evoked hemodynamic response in an early Alzheimer's disease mouse model. *J Alzheimer Dis*. 2013 Jan 1;37(4):857-868. doi: 10.3233/JAD-121900
47. Yoo KS, Sohn WS, Jeong Y*. Tool-use practice induces changes in intrinsic functional connectivity of parietal areas. *Frontiers in Human Neuroscience*. 2013 Feb 26 7:49. doi: 10.3389/fnhum.2013.00049
48. Sohn WS, Yoo KS, Jeong Y*. Independent Component Analysis of Localized Resting State fMRI Reveals Specific Motor Sub-Networks. *Brain Connectivity* 2012 Sep 20;2(4):218-224. [Epub 2012 Aug 9]
49. Lee W, Bae CY, Kwon S, Son J, Kim J, Jeong Y, Yoo SS, Park JK. Cellular Hydrogel Biopaper for Patterned 3D Cell Culture and Modular Tissue Reconstruction. *Advanced Healthcare Materials* 2012 Sep 14;1(5):635-639. doi.: 10.1002/adhm.201200158 [Epub Jul 25]
50. Lee PH, Lee JE, Kim HS, Song SK, Lee HS, Nam HS, Cheong JW, Jeong Y, Park HJ, Kim DJ, Nam CM, Lee JD, Kim HO, Sohn YH. A randomized trial of mesenchymal stem cells in multiple system atrophy. *Annals of Neurology* 2012 Jul 23:32-40. doi: 10.1002/ana.23612 72(1)
51. Park HC, Song C, Kang M, Jeong Y, Jeong KH. Forward imaging OCT endoscopic catheter based on MEMS lens scanning. *Optics Letter* 2012 July 1;37(13):2673-75.
52. Kim EJ, Cho SS, Jeong BH, Kim YS, Seo SW, Na DL, Geschwind MD, Jeong Y*. Glucose metabolism in sporadic Creutzfeldt-Jakob disease: an SPM Analysis of 18F-FDG PET. *European Journal of Neurology*. 2012 Mar;19(3):488-493. doi: 10.1111/j.1468-1331.2011.03570.x. Epub 2011 Nov 4.
53. Cho Y, Seong JK, Jeong Y, Shin SY. Individual Subject Classification for Alzheimer's Disease based on Incremental Learning Using a Spatial Frequency Representation of Cortical Thickness Data. *NeuroImage* 2012 Feb 1;59(3):2217-30. Epub 2011 Oct 8.
54. Cho Y, Seong JK, Shin SY, Jeong Y, Kim JH, Qiu A, Im K, Lee JM, Na DL. A Multi-Resolution Scheme for Distortion-Minimizing Mapping between Human Subcortical Structures based on Geodesic Construction on Riemannian Manifolds. *Neuroimage*. 2011 Aug 15;57(4):1376-92. Epub 2011 May 30.
55. Yoon JH, Suh MK, Jeong Y, Ahn HJ, Moon SY, Chin J, Seo SW, Na DL. Agraphia in Korean patients with early onset Alzheimer's disease. *Int Psychogeriatr*. 2011 Oct;23(8):1317-26. Epub 2011 May 27.
56. Tak S, Yoon SJ, Jang J, Yoo K, Jeong Y*, Ye JC*. Quantitative analysis of hemodynamic and metabolic changes in subcortical vascular dementia using simultaneous near-infrared

spectroscopy and fMRI measurements. *NeuroImage* 2011 Mar 1;55(1):176-84. [Epub 2010 Nov 20.] * co-correspondence

57. Kim YK, Na HK, Kwack SJ, Ryoo SR, Lee Y, Hong S, Hong S, Jeong Y, Min DH. Synergistic Effect of Graphene Oxide/MWCNT Films in Laser Desorption/Ionization Mass Spectrometry of Small Molecules and Tissue Imaging. *American Chemical Society Nano*. 2011 Jun 28;5(6):4550-61.
58. Lyoo CH, Jeong Y, Ryu YH, Rinne JO, Lee MS. Cerebral Glucose Metabolism of Parkinson's Disease Patients with Mild Cognitive Impairment. *Eur Neurol*. 2010 Jul 1;64(2):65-73. [Epub 2010 Jul 1]
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63. Drago V, Finney GR, Foster PS, Amengual A, Jeong Y, Mizuno T, Crucian GP, Heilman KM. Spatial-attention and emotional evocation: Line bisection performance and visual art emotional evocation. *Brain Cogn*. 2008 Mar;66(2):140-144. Epub 2007 Aug 2.
64. Choi KM, Lee BH, Lee SC, Ku BD, Kim EJ, Suh MK, Jeong Y, Heilman KM, Na DL. Influence of moving background on line bisection performance in the normal elderly versus patients with hemispatial neglect. *Am J Phys Med Rehabil*. 2007 Jul;86(7):515-526.
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76. Choi KM, Jeong Y, Lee BH, Ahn HJ, Kang SJ, Chin J, Ku BD, Heilman KM, Na DL. The influence of illusory motion on line bisection performance in normal subjects. *J Int Neuropsychol Soc*. 2005 Nov;11(7):881-888.
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3. Lee D, Lee P, Seo SW, Rho JH, Oh M, Oh JS, Oh SJ, Kim JS, Jeong Y. Neural substrates of cognitive reserve in Alzheimer's disease spectrum and normal aging. Presented at 2018 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 2, 2018 (p. 128) (selected as 'the Best Research Presentation Award')
4. Chung J, Lee YB, Lee P, Yoo K, Jeong Y. A quantitative measure of resource allocation explains attention in cognitively demanding tasks. Presented at 2018 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 2, 2018 (p. 230)

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83. Yoon HJ, Lee E, Kang M, Jeong Y, Park JH. In Vivo Multi-Photon Luminescence Imaging of Gold Nanoparticles to Visualize Morphology and Permeability of Mouse Brain Vasculature. ASME 2014 3rd Global Congress on NanoEngineering for Medicine and Biology
84. Sohn WS, Lee YB, Yoo K, N DL, Jeong Y. Subject specific ROIs for resting state Alzheimer's disease classification. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013
85. Lee YB, Yoo K, Sohn WS, Jeong Y. Classification of Alzheimer's disease with resting state brain network using multivariate pattern analysis. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013 (Poster number 3)
86. Yoo K, Chung SJ, Choung O, Lee YB, You S, Kim MJ, Jeong Y. Neural connectivity substrates of cognitive and motor dysfunction in Parkinson's disease. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013 (Poster number 4)
87. Kang M, Gohel B, Lee YB, Jeong Y. Mapping of intrinsic functional connectivity dynamics using large-scale voltage sensitive dye imaging in anesthetized mice. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013 (Poster number 28) (selected as a best poster)
88. Sohn, WS, Yoo K, Jeong Y. Intrinsic connectivity of the default mode network is affected by ROI selection. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013 (Poster number 34)
89. Gohel B, Jeong Y. Sensory modality specific EEG dynamics during continuous counting task. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013 (Poster number 41)
90. Lee J, Kim Y, Jeong Y, Na DL, Lee K-H, Lee D. Pathway-Based Classification of Brain Activities for Alzheimer's Disease Analysis. ACM 7th international workshop on data and text mining in biomedical informatics in conjunction with CIKMK, San Francisco, USA, Nov. 1, 2013
91. Kang M, Gohel B, Lee YB, Jeong Y. Mapping of intrinsic functional connectivity dynamics using large-scale voltage sensitive dye imaging in anesthetized mice. Presented at 16th Annual Meeting of the Korean Society for Brain and Neural Science, Seoul, Korea, Sep 25-26, 2013 (Poster number H-10). Exp Neurobiol. 22(2);Supple 2013 p165.(selected as a best poster)
92. Yoo K, Chung SJ, You S, Kim MJ, Sohn WS, Lee YB, Jeong Y. Intrinsic functional connectivity of motor network and laterality of motor symptoms in PD. Presented at the 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, WA, USA, June 16-20. 2013 (Poster number, MT1205)
93. Lee YB, Yoo K, Sohn WS, Jeong Y. Classification of resting fMRI of Alzheimer's disease using multivariate pattern analysis with cluster. Presented at the 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, WA, USA, June 16-20. 2013 (Poster number, MT1638)

94. Sohn WS, Yoo K, Jeong Y. Localized independent component analysis for mapping functional sub-networks. Presented at the 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, WA, USA, June 16-20. 2013 (Poster number, MT 2023)
95. Sohn WS, Yoo K, Jeong Y. Methods for ROI selection affects measured intrinsic connectivity of resting state network. Presented at the 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, WA, USA, June 16-20. 2013 (Poster number, MT 2026)
96. Kim J, Jeong Y. Augmentation of the sensory-evoked hemodynamic response in an early Alzheimer's disease model mouse. Presented at XXVIth International Symposium on cerebral blood flow, metabolism and function & XIth International Conference on Quantification of brain function with PET, Shanghai, China, May 23, 2013 (Abst, Thursday 51, p116)
97. Yoo K, Kim H, Na DL, Jeong J, Jeong Y. Dynamics of the network properties with Progression of Alzheimer's Disease using resting state fMRI. Presented at 2012 Annual Fall Conference of Korean Neurological Association, Seoul, Korea Nov. 1, 2012. (Abst, P-I-88, p63)
98. Noh HJ, Seo SW, Park JE, Jeong Y, Kim GH, Noh Y, Cho H, Kim HJ, Yoon CW, Ye BS, Na DL. Blood viscosity in subcortical vascular mild cognitive impairments with versus without amyloid burden. Presented at 2012 Annual Fall Conference of Korean Neurological Association, Seoul, Korea Nov. 1, 2012. (Abst, P-I-106, p69)
99. Sohn WS, Sailamul P, Kang JK, Jeong Y. Localized Independent Component Analysis of fMRI for identifying Epileptic Focus. Presented at 2012 Annual Fall Conference of Korean Neurological Association, Seoul, Korea Nov. 3, 2012. (Abst, P-II-141, p183)
100. Lee E, Lee JE, Yoo K, Lee PH, Jeong Y, Sohn YH, Kang SY. Neural substrates of sequence effect in Parkinson's disease. Presented at 2012 Annual Fall Conference of Korean Neurological Association, Seoul, Korea Nov. 3, 2012. (Abst, P-II-194, p200)
101. Gohel B, Jeong Y, Frequency-morphological analysis of EEG waveform during seizure onset. Presented at 2012 Annual Fall Conference of Korean Neurological Association, Seoul, Korea Nov. 3, 2012. (Abst, P-II-284, p229)
102. Sohn WS, Sailamul P, Kang JK, Jeong Y. Isolation of Epileptic Focus using Localized Independent Component Analysis. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
103. Yoo K, Kim H, Na DL, Seo SW, Jeong J, Jeong Y. Reorganization of the Brain Network with Progression of Alzheimer's Disease using resting state fMRI. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
104. Ghahremani M, Yoo K, Chung SJ, Jeong Y, Ye, JC. Brain resting state network connectivity in patients with Parkinson's disease and cognitive impairment. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.

105. Lee E, Lee JE, Yoo K, Lee PH, Jeong Y, Kang SY. Neural substrates of sequence effect in Parkinson's disease. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
106. Lee YB, Hong H, Jeong Y. Detection of Implicit thought with eye tracking: Modified Implicit Association Test Reveals the subsistent of implicit intention. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
107. Sohn WS, Yoo K, Jeong Y. Localized independent component analysis for mapping functional sub-networks. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
108. Bakul G, Jeong Y. Morphological modulation in EEG waveform during Motor Imagery. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
109. Han YH, Kim JH, Jeong Y. Study of perivascular drainage in mouse brain and relationship with Alzheimer's disease. Presented at the 15th Annual Meeting of the Korean Society for Brain and Neural Science (CB-8), Seoul, Korea, Sep.25-26. Experimental Neurobiology 21(2, supple2012) p84.
110. Lee YB, Park DH, Jeong Y. Effect of rTMS on Broca's area on verbal memory performance. Presented at the 15th Annual Meeting of the Korean Society for Brain and Neural Science (CB-13), Seoul, Korea, Sep.25-26. Experimental Neurobiology 21(2, supple2012) p87
111. Yoo KS, Chung SJ, Kim MJ, You S, Sohn WS, Jeong Y. Intrinsic functional connectivity of subcortical motor circuit in patients with Parkinson's disease. Presented at the 18th Annual Meeting of the Organization for Human Brain Mapping (292 WTh), Beijing, China, June 10-14
112. Sohn WS, Yoo KS, Jeong Y. Localized independent component analysis (LICA) for mapping motor network. Presented at the 18th Annual Meeting of the Organization for Human Brain Mapping (7363 MT), Beijing, China, June 10-14, 2012
113. Yoo KS, Sohn WS, Jeong Y. Experience-dependent changes in intrinsic functional connectivity: Tool-use and supramarginal gyrus. Presented at the 18th Annual Meeting of the Organization for Human Brain Mapping (874 WTh), Beijing, China, June 10-14, 2012
114. Gohel B, Jeong Y. Analyze empirical morphometric characteristics of EEG waveform in epilepsy. Presented at The Korean Epilepsy Congress 2012 (OP4-2), Incheon, Korea June 7-9.
115. Sohn WS, Sailamul P, Kang JK, Jeong Y. Localized independent component analysis for identifying epileptic focus. Presented at The Korean Epilepsy Congress 2012 (PO-40), Incheon, Korea June 7-9. (Selected as a Best Poster Award)
116. Suh M, Na DL, Seo SW, Kim H, Jeong Y. Neuroanatomical correlates of dysphagia in patients with subcortical vascular mild cognitive impairment and subcortical vascular

- dementia. Program No. 243.02. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
117. Kim J, Jeong Y. Augmented hemodynamic responses in early Alzheimer's disease model mice. Program No. 875.12. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online. (Selected as an AKN award)
 118. Sohn WS Yoo KS, Na DL, Jeong Y. Progressive changes in hippocampal resting state functional connectivity in amnesic mild cognitive impairment and Alzheimer's disease. Presented at 2011 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 4, 2011.
 119. Yoo KS, Chung SJ, You S, Kim M-J, Jeong Y. Changes in intrinsic functional network connectivity in patients with Parkinson's disease. Presented at 2011 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 4, 2011.
 120. Sohn WS Yoo KS, Jeong Y. Localized independent component analysis (LICA) for mapping task specific motor network. Presented at 2011 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 4, 2011. (Selected as an Excellent poster award)
 121. Yoo KS, Sohn WS, Jeong Y. Tool-use practice-induced changes in intrinsic functional connectivity of parietal lobe. Presented at 2011 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 4, 2011.
 122. Sohn WS, Sailamul P, Kang JK, Lee EM, Jeong Y. Localization of interictal epileptiform discharges using fMRI-EEG. J Korean Neurol Assoc. 2011 October;29 (Suppl. 1):103.
 123. Kim EJ, Cho SS, Jeong BH, Kim YS, Seo SW, Na DL, Geschwind MD, Jeong Y. Specific brain regions preferentially affected in sporadic Creutzfeldt-Jacob disease: an SPM analysis of 18F-FDG PET. J Korean Neurol Assoc. 2011 October;29 (Suppl. 1):168.
 124. Yoo KS, Chung SJ, You S, Kim MJ, Sohn WS, Jeong Y. Resting state sensory motor network in patients in Parkinson's disease. J Korean Neurol Assoc. 2011 October;29 (Suppl. 1):183. (Selected as a Best Poster Award)
 125. Kim J, Chang S, Jo Y, Jeong Y. Augmented hemodynamic response in early Alzheimer's disease model mice. Exp Neurobiol. 2012 September;20(2 Supple): 139.
 126. Chang S, Kim J, Jeong Y. The effect of anesthetics on low-frequency oscillation of blood in the resting state brain. Exp Neurobiol. 2012 September;20(2 Supple): 169.
 127. Sohn WS, Yoo K, Jeong Y. Establishing Methodology for Resting State ROI Analysis to Distinguish Task Specific Motor Networks. Presented at 17th Annual Meeting of the Organization for Human Brain Mapping, Quebec City, Canada June 26-30, 2011.
 128. Jeong Y. Network approach of the brain and neurological disease. J Korean Neurol Assoc. 2011 April;29 (Suppl. 1):13. (Invited talk)

129. Jeong Y. Neurovascular coupling and its dysfunction in subcortical vascular dementia. Presented at 2011 Spring Conference of Korean Dementia Assoc. April 1, 2011 (Invited talk)
130. Jeong Y. In vivo imaging using intravital and two-photon microscopy for neurovascular coupling study. Presented at 2011 Spring meeting of Korean Society of Molecular Imaging. April 30, 2011 (Invited talk)
131. Sohn WS, Yoo K, Na DL, Jeong Y. Changes in Hippocampal Network in amnesic Mild Cognitive Impairment and Alzheimer's disease. The 14th spring meeting of Korean Society of Clinical Neurophysiology, Seoul, Korea April 8-9, 2011. J Korean Society of Clinical Neurophysiology 13(1 suppl):57, 2011 (Selected as excellent research award)
132. Yoo K, Sohn WS, Jeong Y. Training-induced changes in resting state sensory-motor network. The 14th spring meeting of Korean Society of Clinical Neurophysiology, Seoul, Korea April 8-9, 2011. J Korean Society of Clinical Neurophysiology 13(1 suppl):80-81, 2011
133. Sohn WS, Yoo K, Na DL, Jeong Y. Changes of Hippocampal Networks in Patients with Mild Cognitive Impairment and Alzheimer's disease. Presented at 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain June 6-10, 2010
134. Sohn WS, Yoo K, Na DL, Jeong Y. Changes of resting state motor networks according to seeding regions and their relationship with task activated fMRI. Presented at 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain June 6-10, 2010.
135. Tak S, Yoon SJ, Jeong Y., Ye JC. Quantitative Analysis of Subcortical Vascular Cognitive Impairment using Simultaneous NIRS and fMRI. Presented at 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain June 6-10, 2010.
136. Jeong Y. Physiology and Function of Cerebral Cortex. Presented at 13th Spring meeting of Korean Society for Clinical Neurophysiology. April 2, 2010 (Lecture course)
137. Sohn W, Jeong Y. Differences in Left and Right Hippocampal Networks with Mild Cognitive Impairment and Alzheimer's disease. Presented at 2010 Spring Conference of Korean Dementia Assoc. April 3, 2010
138. Kim J, Jeong Y. In vivo brain imaging of Alzheimer's disease and other dementia. Presented in DRD2009. Oct 21-23, Okayama, December 11, 2009 (Invited talk)
139. Park SG, Oh YJ, Jang H, Kim J, Min DH, Jeong Y., Jeong KH. Neurochemical Detection through Biocompatible Surface Enhanced Raman Scattering Biopatch. Presented in 2009 Annual Fall Meeting of the Korean Biochip Society. Seoul, Oct. 8~9, 2009.
140. Jeong Y., Sohn WS. Default mode network and other intrinsic network mapping using resting fMRI and their implications. J Korean Neurol Assoc. 2009;27(Suppl. 1):13. (Invited talk)

141. Yoo K, Tak S, Yoon SJ, Ye JC, Jeong Y. Hemodynamic response changes measured using fMRI and near-infrared spectroscopy in patients with subcortical vascular cognitive impairment. *J Korean Neurol Assoc.* 2009;27(Suppl. 1):91.
142. Kim J, Jeong Y. Measurement of vascular function in mice brain using two-photon laser scanning microscopy. The 4th Asian and Pacific Rim Symposium on Biophotonics. 27-29 May, 2009 Jeju island, Korea.
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Other Activities

1. Chair. KAIST Workshop on Neuroimaging and Brain Mapping. Dec. 3 2010 KAIST, Daejeon, Korea

2. Organization and Scientific Committee. KAIST-NTU-Technion Tripartite Workshop on Biomedicine. Sep. 7 2016 KAIST, Daejeon, Korea