

Curriculum Vitae

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Name: Kang Ik Kevin Cho

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Place of Birth: Sokcho, South Korea

Education:

2007-2010	B.Sc.	Biomedical Science (Neuroscience & Mental Health)	Imperial College London
2011-2016	Ph.D.	Brain and Cognitive Science	Seoul National University

Postdoctoral Training:

2016-2018	Postdoctoral Research Fellow	Clinical Neuroimaging (Prof. Jun Soo Kwon)	Institute of Human Behavioral Medicine, SNU-MRC, Republic of Korea
2019.04 -	Postdoctoral Research Fellow	Neuroimaging (Prof. Ofer Pasternak)	Psychiatry Neuroimaging Laboratory, Brigham and Women's Hospital, Harvard Medical School

Faculty Academic Appointments:

2018.12 – 2019.03	Brain Korea supported Assistant Professor	Brain and Cognitive Science Seoul National University
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Appointments at Hospitals/Affiliated Institutions:

2019.04 -	Research Fellow	Neuroimaging (Prof. Ofer Pasternak)	Psychiatry Neuroimaging Laboratory, Brigham and Women's Hospital, Harvard Medical School
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Honors and Prizes:

2013	Stipend	Seoul National University	Stipend for students with outstanding academic achievements
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2016	Prize	Seoul National University Hospital	Prize for researchers with outstanding publication
2016	Prize	Seoul National University	Best Ph.D. graduation thesis
2018	Prize	Seoul National University Hospital	Prize for researchers with outstanding publication
2018	Prize	Korean Society for Human Brain Mapping	Best publication of the year

Report of Local Teaching and Training

Teaching of Students in Courses:

2016	Summer Workshop: Neuroimaging for beginners	Clinical Cognitive Neuroimaging Center	Seoul National University Hospital
2016	Winter Workshop: Neuroimaging for beginners	Clinical Cognitive Neuroimaging Center	Seoul National University Hospital
2017	Lecture: Structural changes in schizophrenia	Brain and Cognitive Science	Seoul National University

Local Invited Presentations:

No presentations below were sponsored by 3rd parties/outside entities

Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

2013	Presentation of research work	Psychiatry Neuroimaging Laboratory, Boston, MA, United States
2018	Presentation of research work	Institute of Psychiatry, Psychology and Neuroscience Kings College London, London, United Kingdom
2018	Presentation of research work	Psychiatry Neuroimaging Laboratory, Boston, MA, United States

Report of Scholarship

Peer reviewed scholarship in print or other media:

Research Investigations

1. Lee TY, Kim SN, Jang JH, Shim G, Jung WH, Shin NY, et al. **Neural correlate of impulsivity in subjects at ultra-high risk for psychosis.** Progress in Neuro-Psychopharmacology and Biological Psychiatry. 2013;45:165-9.

2. **Cho KIK**, Shenton ME, Kubicki M, Jung WH, Lee TY, Yun J-Y, et al. **Altered Thalamo-Cortical White Matter Connectivity: Probabilistic Tractography Study in Clinical-High Risk for Psychosis and First-Episode Psychosis.** *Schizophrenia bulletin.* 2015;42(3):723-31.
3. Han HJ, Jung WH, Yun JY, Park JW, **Cho KK**, Hur JW, et al. **Disruption of effective connectivity from the dorsolateral prefrontal cortex to the orbitofrontal cortex by negative emotional distraction in obsessive-compulsive disorder.** *Psychological medicine.* 2015;46(05):921-32.
4. Lee D-H, Lee K-J, **Cho KIK**, Noh EC, Jang JH, Kim YC, et al. **Brain Alterations and Neurocognitive Dysfunction in Patients With Complex Regional Pain Syndrome.** *The Journal of Pain.* 2015;16(6):580-6.
5. Yoon YB, Yun J-Y, Jung WH, **Cho KIK**, Kim SN, Lee TY, et al. **Altered Fronto-Temporal Functional Connectivity in Individuals at Ultra-High-Risk of Developing Psychosis.** *PloS one.* 2015;10(8):e0135347.
6. Hur J-W, Blake R, **Cho KIK**, Kim J, Kim S-Y, Choi S-H, et al. **Biological Motion Perception, Brain Responses, and Schizotypal Personality Disorder.** *JAMA psychiatry.* 2016;73(3):260.
7. Jung WH, Yücel M, Yun J-Y, Yoon YB, **Cho KIK**, Parkes L, et al. **Altered functional network architecture in orbitofronto-striato-thalamic circuit of unmedicated patients with obsessive-compulsive disorder.** *Human brain mapping.* 2016;38(1):109-19.
8. Kikinis Z, **Cho KIK**, Coman IL, Radoeva PD, Bouix S, Tang Y, et al. **Abnormalities in brain white matter in adolescents with 22q11.2 deletion syndrome and psychotic symptoms.** *Brain imaging and behavior.* 2016;11(5):1353-64.
9. Park HY, Yun J-Y, Shin NY, Kim S-Y, Jung WH, Shin YS, et al. **Decreased neural response for facial emotion processing in subjects with high genetic load for schizophrenia.** *Progress in Neuro-Psychopharmacology and Biological Psychiatry.* 2016;71:90-6.
10. Boedhoe PS, Schmaal L, Abe Y, Ameis SH, Arnold PD, Batistuzzo MC, et al. **Distinct Subcortical Volume Alterations in Pediatric and Adult OCD: A Worldwide Meta- and Mega-Analysis.** *The American journal of psychiatry.* 2017;174(1):60-9.
11. Choi S-H, Kyeong S, **Cho KIK**, Yun J-Y, Lee TY, Park HY, et al. **Brain network characteristics separating individuals at clinical high risk for psychosis into normality or psychosis.** *Schizophrenia research.* 2017;190:107-14.
12. Kelly S, van Velzen L, Veltman D, Thompson P, Jahanshad N, Schmaal L, et al. 941. **White Matter Microstructural Differences in Major Depression: Meta-Analytic Findings from Enigma-MDD DTI.** *Biological psychiatry.* 2017;81(10):S381.
13. Kim M, **Cho KIK**, Yoon YB, Lee TY, Kwon JS. **Aberrant temporal behavior of mismatch negativity generators in schizophrenia patients and subjects at clinical high risk for psychosis.** *Clinical Neurophysiology.* 2017;128(2):331-9.
14. Lee J, Kim B-H, Kim E, Howes OD, **Cho KIK**, Yoon YB, et al. **Higher serotonin transporter availability in early-onset obsessive-compulsive disorder patients undergoing escitalopram treatment: A [11 C]DASB PET study.** *Human Psychopharmacology: Clinical and Experimental.* 2017;33(1):e2642.
15. Seol JJ, Kim M, Lee KH, Hur J-W, **Cho KIK**, Lee TY, et al. **Is There an Association Between Mismatch Negativity and Cortical Thickness in Schizophrenia Patients?** *Clinical EEG and Neuroscience.* 2017;48(6):383-92.
16. Yoon YB, Shin W-G, Lee TY, Hur J-W, **Cho KIK**, Sohn WS, et al. **Brain Structural Networks Associated with Intelligence and Visuomotor Ability.** *Scientific Reports.* 2017;7(1).
17. **Cho KIK**, Kwak YB, Hwang WJ, Lee J, Kim M, Lee TY, et al. **Thalamo-cortical system involving higher-order nuclei in patients with first-episode psychosis.** *BMB reports.* 2018;51(9):427-8.
18. Kim T, Lee K-H, Oh H, Lee TY, **Cho KIK**, Lee J, et al. **Cerebellar Structural Abnormalities Associated With Cognitive Function in Patients With First-Episode Psychosis.** *Frontiers in psychiatry.* 2018;9.

19. Lee J, Yoon YB, Wijtenburg SA, Rowland LM, Chen H, Gaston FE, et al. **Lower glutamate level in temporo-parietal junction may predict a better response to tDCS in schizophrenia.** Schizophrenia research. 2018;201:422-3.
20. **Cho KIK**, Kim M, Yoon YB, Lee J, Lee TY, Kwon JS. **Disturbed thalamocortical connectivity in unaffected relatives of schizophrenia patients with a high genetic loading.** Australian & New Zealand Journal of Psychiatry. 2019:000486741882402.
21. **Cho KIK**, Kwak YB, Hwang WJ, Lee J, Kim M, Lee TY, et al. **Microstructural Changes in Higher-Order Nuclei of the Thalamus in Patients With First-Episode Psychosis.** Biological psychiatry. 2019;85(1):70-8.

Thesis:

“Investigation of Microstructural changes in Thalamus Nuclei in Schizophrenia using Diffusion Weighted Imaging”, by Kang Ik Kevin Cho, Brain and Cognitive Sciences, Seoul National University, Seoul, South Korea, 2016

Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings:

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| 2017 | Thalamo-Cortical White Matter Connectivity as an Endophenotype of the Schizophrenia : DTI Study in the Unaffected Family Members
16 th International Congress on Schizophrenia Research (selected presentation) |
| 2015 | Altered thalamo-cortical white matter connectivity: probabilistic tractography study in clinical – high risk for psychosis and first episode psychosis
5 th European Conference in Schizophrenia Research (selected presentation) |

Narrative Report

I am a postdoctoral research fellow in the Department of Psychiatry and Radiology, Brigham and Women’s Hospital, Harvard Medical School. My research is focused on discovering the biological mechanisms involved in psychosis, which could eventually help targeted treatment development. Specifically, I am interested in identifying imaging biomarkers that may help understanding brain changes in the early stages of the disorder. Although my formal training is in neuroscience, I have much experience in data engineering and automations, as well as in coding analysis pipelines and designing Quality Assurance (QA) procedures. During my Ph.D. (Seoul National University, Seoul, Republic of Korea) I have investigated brain changes in schizophrenia using MRI, focusing on microstructural changes as revealed by diffusion MRI. I was part of Seoul Youth Clinic study in Korea, where I helped collecting data from schizophrenia patients, as well as subjects at clinical high risk for developing psychosis. I was involved in designing all of the MRI analysis and data management protocols for this study. During my PhD I further extended my research experience by spending a year in the Psychiatry Neuroimaging Laboratory (PNL) where I worked on developing neuroimaging pipelines. Following my PhD, I spent six months in King’s College under the supervision of Dr. Philip McGuire. There I was developing analysis pipelines for the Psyscan study. Currently as a postdoctoral student in the PNL I am part of a team that develops analysis and data management protocols for the Shanghai At Risk for Psychosis (SHARP) study, and the PRONIA study. I am also a strong proponent of open science, and actively involved in a number of open-source programming projects.