

Heejong Kim

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Google Scholar: [Link](#)

Education

- [Tandon School of Engineering, New York University](#), NY, USA
PhD candidate, Computer Science & Engineering Sep 2016 - Present
Advisor: Professor Guido Gerig
- [Korea University](#), Seoul, South Korea
M.E, Bio-convergence Engineering Aug 2016
Advisor: Professor Joon-Kyung Seong
- [Korea University](#), Seoul, South Korea
B.E, Biomedical Engineering Aug 2014
Advisor: Professor Joon-Kyung Seong

Academic Experience

- Tandon School of Engineering, New York University, NY, USA
Research Assistant Sep 2016 -
- [Visualization Imaging and Data Analysis Center \(VIDA\) Lab](#)
(Advisor: [Professor Guido Gerig](#))
- Korea University, Seoul, Korea
Research Assistant Aug 2014 - Aug 2016
- [Brain Reverse Engineering by Intelligent Neuroimaging \(BREIN\) Lab](#)
(Advisor: [Professor Joon-Kyung Seong](#))
- Teaching Assistant Aug 2014 - Aug 2016
- Bioinformatics (2016), BME Programming (2015), Medical Image Processing (2015), Introduction to Neuroscience (2014)
- Undergraduate Research Assistant Jan 2013 - Jun 2013
- [Brain Reverse Engineering by Intelligent Neuroimaging \(BREIN\) Lab](#)
(Advisor: [Professor Joon-Kyung Seong](#))

Industrial Experience

- Internship: Math & Algorithms, Nokia Bell Labs, NJ, USA Jun 2019 - Aug 2019
Internship program, Boston Scientific, Seoul, Korea Jun 2013 - Aug 2013

Awards and Scholarships

- National Institutes of Health (NIH) awards, MICCAI, 2020
Best oral presentation, MICCAI CDMRI workshop, 2019
Best student paper finalist, SPIE Medical Imaging, 2019
Dean's PhD Fellowship, Tandon School of Engineering, New York University, 2016
Best Biomedical Image Award, Korea Society of Medical and Biological Engineering, 2015

Best Poster Presentation, Korea Society of Medical and Biological Engineering, 2014
BrainKorea21 PLUS Scholarship, 2014 - 2015
Woodeok Foundation Scholarship, 2011 - 2014

Publications

[Journal Papers]

Kim, H. J., Shin, J. H., Han, C. E., Kim, H. J., Na, D. L., Seo, S. W., ... & Alzheimer's Disease Neuroimaging Initiative. (2016). Using Individualized Brain Network for Analyzing Structural Covariance of the Cerebral Cortex in Alzheimer's Patients. *Frontiers in neuroscience*, 10.

Jung, N. Y., Han, C. E., **Kim, H. J.**, Yoo, S. W., Kim, H. J., Kim, E. J., ... & Seo, S. W. (2016). Tract-specific correlates of neuropsychological deficits in patients with subcortical vascular cognitive impairment. *Journal of Alzheimer's Disease*, 50(4), 1125-1135.

[Conference Proceedings]

Kim, H., Hong, S., Styner, M., Piven, J., and Gerig, G. (2020). "Hierarchical geodesic modeling on the diffusion orientation distribution function for longitudinal DW-MRI analysis," *Medical Image Computing and Computer Assisted Interventions (MICCAI) (In print)*

Kim, H., Eggleston, M., Kennedy, W., Shah, S., and Yu, C. (2020) "Automatic Detection and Size Estimation of Microparticle Biosensors in Optical Coherence Tomography Images," *IEEE Photonics Conference (In print)*

Kim, H., Styner, M., Piven, J., and Gerig, G (2019). "A framework to construct a longitudinal DW-MRI infant atlas based on mixed effects modeling of dODF coefficients," *Medical Image Computing and Computer Assisted Interventions (MICCAI) Workshop: CDMRI (Oral Presentation)*

Kim, H., Piven, J., Gerig, G., the IBIS Network (2019). Longitudinal structural connectivity in the developing brain with projective non-negative matrix factorization, *SPIE Medical Imaging (Oral Presentation)*

[Abstracts]

Kim, H.J., Seong, J.K., Cho, H., Seo, S.W., Na, D.L. (2014). Longitudinal changes of cortical thickness-based brain connectivity in early-versus late-onset Alzheimer's disease, *International BioMedical Engineering Conference (IBEC) (Oral presentation)*

Kim, H.J., Shin, J.H., Han, C.E., Seo, S.W., Seong, J.K. (2015). Individual Subject Network with Cortical thickness from Human Brain MRI, *Organization for Human Brain Mapping (OHBM)*

Kim, H.J., Seong, J.K. (2014) Longitudinal Changes of Cortical Thickness-Based Brain Connectivity in Alzheimer's disease, *Korean Society of Medical and Biological Engineering (KOSOMBE)*

Other Activities

[Journal Reviews]

NeuroImage: Clinical

[Reviewer for Conferences]

IEEE International Symposium on Biomedical Imaging (ISBI)

Medical Image Computing and Computer Assisted Interventions (MICCAI)