Stanford

Junyoung Park

Postdoctoral Scholar, Neurology and Neurological Sciences

Curriculum Vitae available Online

Bio

BIO

Dr. Jun Young graduated from the Department of Biostatistics at the School of Public Health, Seoul National University, Korea. His major field of study is biostatistics, with a specific focus on the application of machine learning and statistical analysis to medical imaging and genetic data. During his doctoral studies, he concentrated on two primary research areas. Firstly, he dedicated himself to the development of deep learning models for medical images, primarily centered on T1-MRI and cognitive function test images related to Alzheimer's Disease. Secondly, he engaged in extensive genome-wide association analyses of medical images associated with Alzheimer's Disease, using statistical algorithms to uncover novel insights into the genetic factors contributing to this complex condition. Currently, as a postdoctoral fellow at the Greicius Lab at Stanford, he aims to develop statistical methods to discover novel structural variants and model polygenetic risk scores using long-read sequencing data.

STANFORD ADVISORS

- Michael Greicius, Postdoctoral Faculty Sponsor

LINKS

- My Lab Site: https://greiciuslab.stanford.edu/people/jun-young-park
- Personal Site: https://sites.google.com/view/jypark/home?authuser=0

Publications

PUBLICATIONS

- **Predicting mild cognitive impairments from cognitively normal brains using a novel brain age estimation model based on structural magnetic resonance imaging** *CEREBRAL CORTEX*
  Choi, U., Park, J., Lee, J., Choi, K., Won, S., Lee, K.
  2023; 33 (21): 10858-10866
- **Machine learning-based quantification for disease uncertainty increases the statistical power of genetic association studies** *BIOINFORMATICS*
  Park, J., Lee, J., Lee, Y., Lee, D., Gim, J., Farrer, L., Lee, K., Won, S.
  2023; 39 (9)
- **Automating Rey Complex Figure Test scoring using a deep learning-based approach: a potential large-scale screening tool for cognitive decline.** *Alzheimer's research & therapy*
  Park, J. Y., Seo, E. H., Yoon, H. J., Won, S., Lee, K. H.
  2023; 15 (1): 145
- **Heritability of cognitive abilities and regional brain structures in middle-aged to elderly East Asians.** *Cerebral cortex (New York, N.Y. : 1991)*
  Lee, Y., Park, J. Y., Lee, J. J., Gim, J., Do, A. R., Jo, J., Park, J., Kim, K., Park, K., Jin, H., Choi, K. Y., Kang, S., Kim, et al
  2023; 33 (10): 6051-6062

- **A missense variant in SHARPIN mediates Alzheimer's disease-specific brain damages.** *Translational psychiatry*
  Park, J. Y., Lee, D., Lee, J. J., Gim, J., Gunasekaran, T. I., Choi, K. Y., Kang, S., Do, A. R., Jo, J., Park, J., Park, K., Li, D., Lee, et al
  2021; 11 (1): 590
- **Visuospatial memory impairment as a potential neurocognitive marker to predict tau pathology in Alzheimer's continuum.** *Alzheimer's research & therapy*
  Seo, E. H., Lim, H. J., Yoon, H. J., Choi, K. Y., Lee, J. J., Park, J. Y., Choi, S. H., Kim, H., Kim, B. C., Lee, K. H.
  2021; 13 (1): 167