Dr. Jiwoong Kim

## Medical Science & Machine Learning

- Park, Y., Shin, N., Chung, S., Lim, S., Lee, P., Kee, S., Kim, J. (2019) \MRI-visible perivascular spaces in basal ganglia predict cognitive decline in Parkinsons disease." *Movement Disorders*, 34(11): 1672{1679
- Choi, Y., Nam, Y., Lee, Y., Kim, J.,..., Jeon, S.\IDH1 mutation prediction using MRbased radiomics in pretreatment glioblastoma: comparison between manual delineation and fully automated deep learning-based approach of tumor segmentation." *European Journal of Radiology*, DOI:10.1016/j.ejrad.2020.109031
- Choi, Y., Jang, J., Kim, J., Nam, Y., Shin, N., Ahn, K., Jeon, S., Kim, B. (2020) \MRI and Quantitative Magnetic Susceptibility Maps of the Brain after Serial Administration of Gadobutrol: A Longitudinal Follow-up Study." *Radiology*, 297(1):143-150
- Choi, Y., Nam, Y., Kim, J.,...,Shin, N. (2020) \MRI-visible dilated perivascular spaces in healthy young adults: A twin heritability study." *Human Brain Mapping*, 41(18):5313-5324
- Lee, Y., Chang, H., Kim, S., Yang, M.,..., Kim, J., Yoon, J., and Ye, Y. (2020) Psychological distress in patients with anaphylaxis." *Allergy, Asthma, & Immunology Research*, 12(3):496-506
- Ye, Y., Kim, S., Yang, M., Koh, Y., Kang, H., Choi, J.,..., Kim, J. (2020) \Healthrelated utility of EQ-5D in Korean adults with chronic urticaria: mapping from urticaria outcome measures." *Allergy, Asthma, & Immunology Research*, 12(4):599-607
- Bak, Y., Nah, Y.,..., Kim, J., Shin, N. \Neural correlates of empathy for babies in postpartum women: A longitudinal study." (2021) *Human Brain Mapping* 42(10):3295-3304
- Park, KS., Choi, Y., Kim, J., ..., Kim, M. (2021) Scienti c Reports Prognostic value of MRI-measured tumor thickness in patients with tongue squamous cell carcinoma. 11, 11333.

Works In Progress

- 1. **Kim**, **J**., Yang, J., Wang, J. \Prediction of chromatin interactions and expression quantitative trait loci based on Bayesian approaches."
- 2. **Kim**, **J**., Koul, H. \A fast algorithm for some minimum *L*<sub>2</sub> distance estimation and their application to image segmentation."
- 3. Kim, Jiwoong. \A goodness-of- t test for the Cauchy distribution with unknown location and scale parameters." (*Submitted to Metrika*)

4.

Publ ished Software and Packages	R-packages Buddle: deep learning for classi cation, regression, and time serie KoulMde: minimum distance estimation. GofKmt: a goodness-of- t test via Khmaladze martingale transfor HMMEsovler: a solution for the generalized linear mixed model.	
	Stand-alone academic software KanekiGun: Graphic User Interface of MATLAB for time-series analysis. GameMax: Calculating the Nash equilibrium for various game theory models.	
Teaching Experience	University of South Florida	
	STA 4123 - Introduction to Mathematical Statistics	Spring 2022
	University of Notre Dame	
	ACMS 10145 - Statistics for Business and Economics I	Spring 2017
	Michigan State University	
	STT 315: Intro Prob & Stat for Business STT 200: Statistical Methods	Summer 2015, 2016 Summer 2013
Presentation	2020 Statistics Seminar Series, Chonnam University 2020 Statistics Seminar Series, Chungnam University	September 2020 July 2020