



Michael Meng-Kang Hsieh M.Sc.

Michael is a data analyst for Biomedical Image Computing and Analytics (CBICA) at the Perelman School of Medicine at the University of Pennsylvania. Michael has multidisciplinary skill-set. Michael's expertise include in image processing, machine learning, statistical analysis, software development, pipeline automation, and system administration. Michael primarily involves in brain imaging and breast imaging studies, focusing on image registration, segmentation and statistical analysis.

Experience:

- Senior Data Analyst, 2016-present, Center for Biomedical Image Computing and Analytics, University of Pennsylvania
- Data Analyst, 2012-2016, Center for Biomedical Image Computing and Analytics, University of Pennsylvania

Education:

- M.Sc. Applied Physics, Delft University of Technology, The Netherlands, 2011
- M.Sc. Automatics and Robotics, Warsaw University of Technology, Poland, 2010
- B.S. Optomechanics, National Taiwan University, Taiwan, 2008

Selected Publications:

M. Petrou, C. Davatzikos, **M. Hsieh**, B. R. Foerster, R. L. Albin, V. Kotagal, M. L. Müller et al. "*Diabetes, Gray Matter Loss, and Cognition in the Setting of Parkinson Disease.*" *Academic radiology*, May 2016.

M. A. Espeland, K. Erickson, R. H. Neiberg, J. M. Jakicic, T. A. Wadden, R. R. Wing, L. Desiderio, G. Erus, **M. Hsieh**, C. Davatzikos, B. J. Maschak-Carey, P. J. Laurienti, K. Demos-McDermott, R. N. Bryan, and for the Action for Health in Diabetes Brain Magnetic Resonance Imaging (Look AHEAD Brain) Ancillary Study Research Group. "*Brain and White Matter Hyperintensity Volumes After 10 Years of Random Assignment to Lifestyle Intervention.*" *Diabetes Care*, May 2016

A-M McCarthy, B. M. Keller, L. M. Pantalone, **M. Hsieh**, M. Synnestvedt, E. F. Conant, K. Armstrong, D. Kontos. "*Racial differences in quantitative measures of area and volumetric breast density.*" *Journal of the National Cancer Institute*, March 2016.

H. Eavani, **M. Hsieh**, Y. An, G. Erus, L. Beason-Held, S. Resnick, C. Davatzikos. “Capturing Heterogeneous Group Differences using Mixture-of-Experts: Application to a Study of Aging.” *NeuroImage*, Jan. 2016.

Y Ou, S. P. Weinstein, E. F. Conant, S. Englander, X. Da, B. Gaonkar, **M. Hsieh**, M. Rosen, A. DeMichele, C. Davatzikos, D. Kontos. “Deformable registration for quantifying longitudinal tumor changes during preoperative chemotherapy.” *Magnetic Resonance in Medicine*, June 2015.

