

Stanford



Matthew J Marzelli

Research Data Analyst 1, Psych/Interdisciplinary Brain Sciences

Bio

HONORS AND AWARDS

- NSF Graduate Research Fellowship, National Science Foundation (April 2014)
- Bioengineering Fellowship Award, Stanford University (September 2012)

EDUCATION AND CERTIFICATIONS

- Master of Science, Stanford University , Bioengineering (2014)

Professional

PROFESSIONAL INTERESTS

Medical Imaging, Magnetic Resonance Imaging (MRI), Ultra-High Field MRI (7 Tesla)

WORK EXPERIENCE

- Sr. Neuroimaging Research Assistant - Stanford University School of Medicine (2009 - present)
- Imaging Research Associate - Perceptive Informatics (2007 - 2008)
- Undergraduate Researcher - Brigham & Women's Hospital, Harvard Medical School (2006 - 2007)

Publications

PUBLICATIONS

- **Brain Function Differences in Children With Type 1 Diabetes: An fMRI Study of Working Memory.** *Diabetes*
Foland-Ross, L. C., Tong, G., Mauras, N., Cato, A., Aye, T., Tansey, M., White, N. H., Weinzimer, S. A., Englert, K., Shen, H., Mazaika, P. K., Reiss, A. L.
2020
- **Functional Near-Infrared Spectroscopy (fNIRS) detects increased activation of the brain frontal-parietal network in youth with type 1 diabetes.** *Pediatric diabetes*
Mazaika, P. K., Marzelli, M., Tong, G., Foland-Ross, L. C., Buckingham, B. A., Aye, T., Reiss, A. L.
2020
- **Executive task-based brain function in children with type 1 diabetes: An observational study.** *PLoS medicine*
Foland-Ross, L. C., Buckingham, B., Mauras, N., Arbelaez, A. M., Tamborlane, W. V., Tsalikian, E., Cato, A., Tong, G., Englert, K., Mazaika, P. K., Reiss, A. L.,
Diabetes Research in Children Network (DirecNet)
2019; 16 (12): e1002979
- **Neuroanatomical abnormalities in fragile X syndrome during the adolescent and young adult years.** *Journal of psychiatric research*
Sandoval, G. M., Shim, S., Hong, D. S., Garrett, A. S., Quintin, E., Marzelli, M. J., Patnaik, S., Lightbody, A. A., Reiss, A. L.
2018; 107: 138-44

- **Impact of Early Diabetic Ketoacidosis on the Developing Brain.** *Diabetes care*
Aye, T., Mazaika, P. K., Mauras, N., Marzelli, M. J., Shen, H., Hershey, T., Cato, A., Weinzimer, S. A., White, N. H., Tsalikian, E., Jo, B., Reiss, A. L.
2018
- **Persistently high glucose levels in young children with type 1 diabetes** *PEDIATRIC DIABETES*
Tansey, M., Beck, R., Ruedy, K., Tamborlane, W., Cheng, P., KOLLMAN, C., Fox, L., Weinzimer, S., Mauras, N., White, N. H., Tsalikian, E.
2016; 17 (2): 93-100
- **Longitudinal Evaluation of Cognitive Functioning in Young Children with Type 1 Diabetes over 18 Months.** *Journal of the International Neuropsychological Society*
Cato, M. A., Mauras, N., Mazaika, P., Kollman, C., Cheng, P., Aye, T., Ambrosino, J., Beck, R. W., Ruedy, K. J., Reiss, A. L., Tansey, M., White, N. H., Hershey, et al
2016; 22 (3): 293-302
- **Variations in Brain Volume and Growth in Young Children With Type 1 Diabetes.** *Diabetes*
Mazaika, P. K., Weinzimer, S. A., Mauras, N., Buckingham, B., White, N. H., Tsalikian, E., Hershey, T., Cato, A., Aye, T., Fox, L., Wilson, D. M., Tansey, M. J., Tamborlane, et al
2016; 65 (2): 476-485
- **Longitudinal Assessment of Neuroanatomical and Cognitive Differences in Young Children With Type 1 Diabetes: Association With Hyperglycemia** *DIABETES*
Mauras, N., Mazaika, P., Buckingham, B., Weinzimer, S., White, N. H., Tsalikian, E., Hershey, T., Cato, A., Cheng, P., Kollman, C., Beck, R. W., Ruedy, K., Aye, et al
2015; 64 (5): 1770-1779
- **Influence of the x-chromosome on neuroanatomy: evidence from turner and klinefelter syndromes.** *journal of neuroscience*
Hong, D. S., Hoefl, F., Marzelli, M. J., Lepage, J., Roeltgen, D., Ross, J., Reiss, A. L.
2014; 34 (10): 3509-3516
- **High success rates of sedation-free brain MRI scanning in young children using simple subject preparation protocols with and without a commercial mock scanner—the Diabetes Research in Children Network (DirecNet) experience.** *Pediatric radiology*
Barnea-Goraly, N., Weinzimer, S. A., Ruedy, K. J., Mauras, N., Beck, R. W., Marzelli, M. J., Mazaika, P. K., Aye, T., White, N. H., Tsalikian, E., Fox, L., Kollman, C., Cheng, et al
2014; 44 (2): 181-186
- **Brain morphology in children with 47,XXX syndrome: a voxel- and surface-based morphometric study.** *Genes, brain, and behavior*
LePage, J., Hong, D. S., Raman, M., Marzelli, M., Roeltgen, D. P., Lai, S., Ross, J., Reiss, A. L.
2014; 13 (2): 127-134
- **Alterations in white matter structure in young children with type 1 diabetes.** *Diabetes care*
Barnea-Goraly, N., Raman, M., Mazaika, P., Marzelli, M., Hershey, T., Weinzimer, S. A., Aye, T., Buckingham, B., Mauras, N., White, N. H., Fox, L. A., Tansey, M., Beck, et al
2014; 37 (2): 332-340
- **Brain morphology in children with 47, XYY syndrome: a voxel- and surface-based morphometric study.** *Genes, brain, and behavior*
LePage, J., Hong, D. S., Raman, M., Marzelli, M., Roeltgen, D. P., Lai, S., Ross, J., Reiss, A. L.
2014; 13 (2): 127-134
- **Neuroanatomical correlates of dysglycemia in young children with type 1 diabetes.** *Diabetes*
Marzelli, M. J., Mazaika, P. K., Barnea-Goraly, N., Hershey, T., Tsalikian, E., Tamborlane, W., Mauras, N., White, N. H., Buckingham, B., Beck, R. W., Ruedy, K. J., Kollman, C., Cheng, et al
2014; 63 (1): 343-353
- **Introduction to Neuroimaging Research in Autism Spectrum Disorders** *Comprehensive Guide to Autism*
Barnea-Goraly, N., Marzelli, M. J.
2014
- **Genomic imprinting effects of the x chromosome on brain morphology.** *journal of neuroscience*
Lepage, J., Hong, D. S., Mazaika, P. K., Raman, M., Sheau, K., Marzelli, M. J., Hallmayer, J., Reiss, A. L.
2013; 33 (19): 8567-8574

- **White Matter Aberrations in Prepubertal Estrogen-Naive Girls with Monosomic Turner Syndrome** *CEREBRAL CORTEX*
Yamagata, B., Barnea-Goraly, N., Marzelli, M. J., Park, Y., Hong, D. S., Mimura, M., Reiss, A. L.
2012; 22 (12): 2761-2768
- **Neuroanatomical spatial patterns in Turner syndrome** *NEUROIMAGE*
Marzelli, M. J., Hoeft, F., Hong, D. S., Reiss, A. L.
2011; 55 (2): 439-447
- **Neuroimaging-based approaches in the brain-computer interface** *TRENDS IN BIOTECHNOLOGY*
Min, B., Marzelli, M. J., Yoo, S.
2010; 28 (11): 552-560
- **Automated classification of fMRI data employing trial-based imagery tasks** *MEDICAL IMAGE ANALYSIS*
Lee, J., Marzelli, M., Jolesz, F. A., Yoo, S.
2009; 13 (3): 392-404
- **Composite MR contrast agents for conditional cell-labeling** *INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY*
Marzelli, M., Fischer, K., Kim, Y. B., Mulkern, R. V., Yoo, S., Park, H., Cho, Z.
2008; 18 (1): 79-84