

Curriculum Vitae
Raymond P. Viviano
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CURRENT STATUS IN PROGRAM * Admitted to the program in 2015
* Pre Master's Proposal

FACULTY ADVISOR(S) Dr. Jessica S. Damoiseaux

COURSEWORK

Core courses taken:

Neuroanatomy, Neurophysiology and Plasticity, Cognitive Neuroscience,
Current Topics in Behavioral Neuroscience

Upcoming core courses to be completed:

Models and Methods in Psychopharmacology (Winter 2017)

Statistics courses taken:

Quantitative Methods I & II, Meta-Analysis, Multivariate Statistics

Upcoming statistics sequence to be completed:

Structural Equation Modeling

Other:

Human Cognition, Developmental Psychology

QUALIFYING EXAMS Plan to submit MAP in 2018

PRIOR EDUCATION University of Michigan, Ann Arbor, MI
B.S., Neuroscience, Psychology (2013)

PUBLICATIONS Damoiseaux, J.S., **Viviano, R.P.**, Yuan, P., Raz, N. (2016). Differential Effect of Age on Posterior and Anterior Hippocampal Functional Connectivity. *Neuroimage*. doi:10.1016/j.neuroimage.2016.03.047

POSTER PRESENTATIONS Viviano, R.P., Raz, N., Yuan, P., Damoiseaux, J.S. (2016, June). *Resting State Functional Connectivity Dynamics in Healthy Aging*. Presented at the Organization for Human Brain Mapping Annual Conference, Geneva, CH.

MANUSCRIPTS UNDER REVIEW N/A

MANUSCRIPTS IN PREPARATION **Viviano, R.P.**, Raz, N., Yuan, P., Damoiseaux, J.S. (In Prep). Dynamic Patterns of Resting State Functional Connectivity are Associated with Age, Metabolic Risk and Cognitive Performance in Healthy Adults.

TEACHING EXPERIENCE Psychology 1010 Lab: Introduction to Psychology Lab. Fall 2015 (3 sections), Winter 2016 (3 sections).

OTHER RELEVANT EXPERIENCE

Research Assistant 2013 - 2015

Connect Lab, Dr. Jessica S. Damoiseaux, Wayne State University, Detroit, MI

- Developed Python, Matlab, and Bash scripts to help streamline MRI data preprocessing and analysis; also developed scripts that utilized multiple CPU cores in parallel for high-performance computing systems.
- Ran multiple participants through a neuropsychological test battery including but not limited to the WASI-II and the WMS-IV.
- Performed Debian Linux System Administration duties for a data analysis server shared by many groups at the WSU Institute of Gerontology.
- Explored the application of machine learning algorithms to fMRI data and developed code to perform sliding window correlation analysis for fMRI data.
- Developed and maintained the website of the laboratory.
- Trained undergraduates in fMRI preprocessing steps.
- Drafted and maintained IRB documents.

Research Assistant 2012

Language Learning Lab, Dr. Nick C. Ellis, University of Michigan, Ann Arbor, MI

- Wrote Python scripts to score user generated sentences against target sentences.
- Ran subjects in language learning experiments.

SKILLS

Excel, SPSS, Python, C++, Bash, MATLAB, HTML, CSS, GNU/Linux, Unix system administration, FMRIB Software Library, E-Prime, fMRI Preprocessing and Analysis, Quantitative Research.

PROFESSIONAL SERVICE Brain Day Detroit (Volunteer): 2014-2016.

*AWARDS AND
ACHIEVEMENTS*

Thomas C. Rumble University Graduate Fellowship, 2016-2017,
Wayne State University Graduate School, Detroit MI

Institute of Gerontology Pre-Doctoral Trainee, 2016-2017,
Wayne State University Institute of Gerontology, Detroit MI