PADMAPRIYA MURALIDHARAN

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Education

M.S., PhD | (2014- Present)
Virginia Tech | Psychology (Program: Biological Psychology)

M.A. | (2012- 2014)
University of Pune | Psychology (Program: Clinical)

B.A. | (2009- 2012)
Nowrosjee Wadia College of Arts and Sciences (Affiliated to University of Pune) | Psychology

Software Skills

Data Collection/Analysis*:* MATLAB, Python | **Graphics Software**: Blender, GIMP, Adobe Photoshop | **Statistical Analysis**: SPSS, R | **Neuroimaging data analysis**: FSL, Statistical Parametric Mapping (SPM), AFNI

Research Experience

Mid-level visual processes in Parkinson's Disease (PD) | August 2016- Present
Conducting a behavioral investigation of PD and mechanisms relevant to global-local interactions in perceptual organization.

Part-whole 2D shape perception- Connectivity analysis | November 2016- March 2017
Analysis of fMRI data collected during shape perception tasks to assess functional connectivity in the whole brain when presented with part-whole contingencies of different 2D shapes.

Gigapixel Display study | November 2014- May 2016
Assisted with a project on Learning with Large-scale Interactive Displays, examining relationships between kinesthetic learning and visuo-spatial navigation.

Preliminary investigation of object recognition and emotion perception deficits in PD | January 2015- May 2016
Designed and executed a behavioral study investigating shape-based object recognition and emotion perception in PD.

Visual Emotion Recognition Study | July 2013- January 2014
Behavioral investigation of group-level lateralization differences in emotion recognition using a divided visual field (DVF) paradigm.

Professional Experience

Graduate Teaching Assistant | August 2014-Present
Duties include structuring course syllabi, developing and delivering course materials to students as well as grading of student quizzes, assignments, and projects.

Conference Presentations

Muralidharan, P., Cate, A.D. (2017) *fMRI investigation of part-whole contingencies using 2-D shapes: A partial least squares analysis*. Poster presented at the Cognitive Neuroscience Society (CNS) Annual meeting in San Francisco, CA.

Muralidharan, P., Cate, A.D. (2016) *Perceptual Organization in Parkinson's disease: The Role of the Basal ganglia in Shape-Based Object Recognition and Emotion Perception.* Poster presented at the Annual meeting for Vision Sciences Society St. Pete Beach, FL.

Other Presentations/Talks

"***Sensorimotor System: Movement and Motor Systems***". Departmental talk, Department of Psychology, Virginia Tech, February 12th, 2016.