

## John Mujia Wang

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### Education

8/2011 - 5/2016 Blacksburg, VA	Doctor of Philosophy, Developmental and Biological Psychology Virginia Polytechnic Institute and State University
9/2004 - 4/2008 Ann Arbor, MI	Bachelors of Science, Neuroscience University of Michigan, Ann Arbor

### Research Experiences

8/2011 - present Roanoke, VA	<i>Graduate Research Assistant</i> , Translational Decision Neuroscience Virginia Tech Carilion Research Institute Supervised by Pearl Chiu, Ph.D.
6/2008 - 6/2011 Davis, CA	<i>Junior Specialist</i> , Neurocognitive Development Lab Center for Mind and Brain University of California, Davis Supervised by Susan M. Rivera, Ph.D. and David R. Hessel, Ph.D. <ul style="list-style-type: none"><li>• Coordinate all MRI data collection and analysis (ROI, correlation, PPI) examining individuals with the fragile X premutation (major work on 2 papers, 1 first author)</li><li>• Contribute to several ongoing fMRI projects involving adolescents with autism or adolescents carriers of the full mutation fragile X allele</li><li>• Train and supervise multiple undergraduate research assistants on manual segmentation of anatomical brain structures on T1 MRI images and eye tracking analysis</li></ul>
7/2007 - 7/2008 Ann Arbor, MI	<i>Senior Thesis</i> , Ecological Neuroscience Lab University of Michigan, Ann Arbor Supervised by Stephanie D. Preston, Ph.D. <ul style="list-style-type: none"><li>• Completed an fMRI study titled: Neuroanatomy of Decision Making About Everyday Objects (first author paper)</li><li>• Examined behavioral and neurocorrelates involved in typical subjects making decisions based under different induced mindsets</li></ul>
9/2006 - 9/2007 Ann Arbor, MI	<i>Research Assistant</i> , Ecological Neuroscience Lab University of Michigan

Supervised by Stephanie D. Preston, Ph.D.

- Coordinated computer-based behavioral experiments (separate experiments involving decision making or emotion)

## Honors and Awards

- 2008                      Eli Lilly Research and Travel Award to Cognitive Neuroscience Society  
15<sup>th</sup> Annual Conference, San Francisco, CA.
- 2008                      Best Poster in Cognition and Perception  
University of Michigan Undergraduate Psychology Research Forum

## Publications

- Wang, J.M.**, Koldewyn, K., Hashimoto, R., Schneider, A., Lien, L., Iwahashi, C., Tassone, F., Cheung, K., Hagerman, P.J., Hessler, D.R., & Rivera, S.M. (2012). Male carriers of the FMR1 premutation show altered hippocampal-prefrontal function during memory encoding. *Frontier in Human Neuroscience*, 6(297).
- Wang, J.M.**, Seidler, R.D., Hall, J.L., & Preston, S.D. (2012). The neural bases of acquisitiveness: Decisions to acquire and discard everyday goods depend on task, item type, and individual differences. *Neuropsychologia*, 50(5), 939-948.
- Selmecky D., Koldewyn K., **Wang J.M.**, Lee A., Harvey D., Hessler D.R., Tassone F., Adams P., Hagerman R.J., Hagerman P.J., & Rivera S.M. (2011). Investigation of amygdala volume in men with the fragile X permutation. *Brain Imaging and Behavior*, 5(4), 285-294.
- Hessler D.R., **Wang J.M.**, Schneider A., Koldewyn K., Le L., Iwahashi C., Cheung K., Tassone F., Hagerman P.J., Rivera S.M. (2011). Decreased fragile x mental retardation protein expression underlies amygdala dysfunction in carriers of the fragile x permutation. *Biological Psychiatry*, 70(9), 859-865.

## Conference Presentations

- Wang, J.M.**, Zhu, L., Tankersley, De La Garza, R., Newton, T., McCurry, K., King-Casas, B., Chiu, P. (2012). *Neural substrates of learning and valuation in cocaine dependent individuals and controls*. Presented at the Society for Neuroscience 42<sup>st</sup> Annual Meeting, New Orleans, LA.
- Wang, J.M.**, Zhu, L., Tankersley, D., Christopoulos, G., King-Casas, B., Chiu, P. (2012). *Neural Differentiation of Prediction Error Valence and Magnitude in Probabilistic Learning*. Presented at the 18th Annual Meeting of the Organization for Human Brain Mapping, Beijing, China.

- Wang, J.M.**, Zhu, L., Tankersley, D., Christopoulos, G., King-Casas, B., Chiu, P. (2012). *Neuroimaging differences in valuation between cocaine addicts and controls*. Presented in the Data Blitz Session at the D-Cides Conference, Durham, NC.
- Garcia-Arocena, D., **Wang, J.M.**, Selmeczy, D., Tassone, F., Fon, J.V., Woo, E.M., Hagerman, R.J., Hagerman, P.J., & Rivera, S.M. (2011). *Impact of telomeres in patients with Fragile X-Associated Tremor/Ataxia Syndrome*. Talk presented at the Society for Neuroscience 41<sup>st</sup> Annual Meeting, Washington DC.
- Wang, J.M.**, Hessel, D.R., & Rivera S.M. (2010). *Differences in executive function and emotion processing in fragile X mental retardation-1 premutation carriers during an emotion matching task*. Poster presented at the Society for Neuroscience 40<sup>th</sup> Annual Meeting, San Diego, CA.
- Wang, J.M.**, Seidler, R.D., Hall, J.L., & Preston, S.D. (2010) *An addiction to stuff? An fMRI study to determine if common neural circuits underlie decision about cotton balls and crack*. Poster presented at the Society for Neuroeconomics 2010 Annual meeting, Evanston, IL.
- Wang, J.M.**, Tassone, F., Iwahashi, C., Hagerman, P.J., Hessel, D.R., & Rivera, S.M., (2010) *Differences in amygdala activation correlate with molecular measures in male carriers of the FMR1 premutation*. Talk presented at the 12<sup>th</sup> International Fragile X Conference, Detroit, MI.
- Rivera, S.M, **Wang, J.M.**, Koldewyn, K., Schneider, A., Tassone, F., Hagerman, R.J., Hagerman, P.J., Iwahashi, C., & Hessel, D.R. (2010). *Gene-Brain-Behavior Relationships in Fragile X Premutation Carriers: The Limbic System*. Talk presented at the 43<sup>rd</sup> Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Annapolis, MD.
- Wang, J.M.**, Koldewyn, K., Hessel, D.R., Selmeczy, D., Hagerman, R.J., Hagerman, P.J., Iwahashi, C., Tassone, F., Schneider, A., & Rivera, S.M. (2009). *Fragile X Mental Retardation-1 gene mRNA as a predictor for amygdala volume in fragile X premutation men*. Poster presented at the Cognitive Neuroscience Society 16<sup>th</sup> Annual Meeting, San Francisco, CA.
- Wang, J.M.**, Hall, J.L., Preston, S.D. (2008). *Neuroanatomy of Decision Making about Everyday Objects*. Poster presented at the Cognitive Neuroscience Society 15<sup>th</sup> Annual Meeting, San Francisco, CA.

## Professional Affiliations

3/2012 - Present      *Member*, Organization for Human Brain Mapping

1/2010 - Present	<i>Member</i> , Society for Neuroscience
8/2010 - 2011	<i>Member</i> , Society for Neuroeconomics
7/2010 - 2011	<i>Member</i> , Society for Social Neuroscience
12/2007 - 2009	<i>Member</i> , Cognitive Neuroscience Society

## **Other Activities**

02/2012 - Current Roanoke, VA	<i>Co-Founder</i> , VTCRI Decision Making Brown Bag Virginia Tech Carilion Research Institute
10/2005 - 5/2008 Ann Arbor, MI	<i>President</i> , Undergraduate Philosophy Club University of Michigan, Ann Arbor <a href="http://sitemaker.umich.edu/philosophyclub">http://sitemaker.umich.edu/philosophyclub</a>

## Writing References

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- Susan M. Rivera                      Ph.D., Associate Professor  
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- Stephanie D. Preston                      Ph.D., Assistant Professor  
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- David R. Hessel                      Ph.D., Associate Professor of Clinical Psychology  
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- Kami Koldewyn                      Ph.D., Post Doctoral Scholar  
Department of Brain and Cognitive Sciences  
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