

# Aishwarya (Ash) Rajesh, B.E., M.S., M.A.

## Curriculum Vita

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### Broad Interests

Brain Network Architecture, Data Science, Self-Regulation, Executive Functions, Cognitive Interventions

### Education

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|---------------------|---|
| <b>2013-Present</b> | <b>PhD (Expected) in Clinical/Community Psychology</b><br>University of Illinois at Urbana-Champaign, Illinois, USA |
| <b>2013-2017</b>    | <b>M.A. in Clinical/Community Psychology</b><br>University of Illinois at Urbana-Champaign, Illinois, USA           |
| <b>2009-2010</b>    | <b>M.S. in Applied Cognition and Neuroscience</b><br>University of Texas at Dallas, Texas, USA                      |
| <b>2003-2007</b>    | <b>B.E. in Electronics and Communication Engineering</b><br>Anna University, Tamil Nadu, India                      |

### Professional Qualifications

Scientific Applications: MATLAB, R, FSL, Mplus, Inquisit, E-Prime

Computer Languages: C, UNIX, Python

### Certifications

Data Science in Python (2015; Thinkful.com)

Principles of fMRI 1, with Distinction (2015; Coursera.com)

### Workshops

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|-----------------------|--|
| <b>Research Focus</b> | <b>Introduction to Structural Equation Modeling</b><br>Curran-Bauer Analytics, North Carolina (05/23/16– 05/27/16)   |
|                       | <b>Multi-Modal Neuroimaging Training Program - emphasis in fMRI</b><br>Carnegie Mellon University and University of Pittsburgh (Fellowship, 06/02/15–07/10/15) |

### Clinical Focus

**Essentials of CBT: The Beck Approach (online course)**  
<https://www.beckinstitute.org/> (03/21/17 – 04/11/17)

**Autism Diagnostic Observation Schedule, Second Edition (ADOS-2)**

Aishwarya (Ash) Rajesh, B.E., M.S.

The Autism Program of Illinois, Springfield, Illinois (03/23/17-03/24/17)

## Research Experience

**August 2013 – Present**

Graduate Student

**University of Illinois at Urbana-Champaign**

**Acquired analytic techniques:** functional connectivity using seed-based approaches and graph theory; measurement of neural morphometry (specifically, white matter integrity, volume and thickness of cortical/sub-cortical brain regions); machine learning

**Populations:** Traumatic Brain Injury, Older Adults

**Topics:** Self-Regulation, Cognitive Interventions (acting and exercise)

**May 2011 – June 2013**

Research Assistant

**The Ohio State University**

**Acquired analytic techniques:** psychometric evaluation; design, coding, and development of behavioral-laboratory tasks; measurement of longitudinal change in cortical/sub-cortical brain regions

**Populations:** Autism, Williams Syndrome, Older Adults

**Topics:** Cognitive interventions (specifically, attentional retraining through modified dot-probe task, attention-based mindfulness intervention)

**May 2010 – Aug 2010**

Research Intern

**University of California San Francisco**

**Acquired analytic techniques:** Administration of neuropsychological tests

**Populations:** Older Adults

**Topics:** Executive functioning

## Clinical Experience

**August 2014 - May 2015**

**Neuropsychological Assessment and Consultation Services**

Clinician at *Psychological Services Center, UIUC*

**August 2015 – May 2016**

**Couple Cognitive Behavioral Therapy**

Clinician at *Psychological Services Center, UIUC*

**August 2016 – Present**

**Adult Assessments using Structured Clinical Interview for DSM-5**

Clinician at *Presence Covenant Medical Center, Urbana, 68101*

## Professional Experience

**August 2015 - Present**

**Research Assistant, Lifelong Brain and Cognition Lab**

University of Illinois at Urbana-Champaign, Illinois, USA

**August 2014 – May 2015**

**Instructor, Psychology 100**

University of Illinois at Urbana-Champaign, Illinois, USA

**August 2013 – May 2013**

**Course Assistant, Psychology 100**

University of Illinois at Urbana-Champaign, Illinois, USA

**Jan 2008 – August 2009**

**Assistant Systems Engineer**

Aishwarya (Ash) Rajesh, B.E., M.S.

Tata Consultancy Services (TCS) at National Stock Exchange, Mumbai, India

## Awards and Recognition

2015	<a href="#">Multi-modal Neuroimaging Training Program</a> Fellowship
2009, 2010	Applied Cognition and Neuroscience Scholarship award for Academic Excellence, given to select students who have demonstrated excellence in academics (awarded for each year)
2008/2009	Award for social work (specifically, teaching conversational English to Hindi-medium students) as part of the TCS-Sion School Initiative (via TCS Maitree, Tata Consultancy Services)
2007	First Class with Distinction (Bachelor of Engineering) – awarded only to students who have a cumulative percentage of 75% or above, having passed in all subjects on the very first attempt
2006	Third place for technical paper ( <i>Digital Steganography</i> ) and major project presentation ( <i>Using wavelet transform and M-SPIHT for compression of images</i> ), Meenakshi Sundararajan Engineering College, India.

## Publications

Publications Contribution: \* Major \*\*Secondary \*\*\*Equal \*\*\*\*Minor

- \***Rajesh A.**, Jain S., Henry D., Barbey A., Daugherty M.A., Rubin D.R. Differential Rehabilitation Profiles in Traumatic versus Other Forms of Acquired Brain Injury: A retrospective analysis using a medical database (*submitted for initial review to Disability and Rehabilitation*).
- \***Rajesh A.**, Monti J., Cooke G., Voss M., Jahn A., Kramer A. Differences in Brain Architecture During Long-Term Recovery Following Mild Traumatic Brain Injury (*submitted for initial review to Journal of Neurotrauma*).
- \***Rajesh A.**, Mulick J.A., Butter E. Inter-rater reliability and validity of the OACIS in clinical settings (*submitted for initial review to Research in Autism Spectrum Disorders*).
- \*\*Lohmann, S., Mekawi, Y., Chinmayi, T. Sunderrajan, A., Hughes, C. **Balasubramaniyan, A.**, & Albarracin, D. It is a storm indeed: A meta-analysis of executive control and repetitive negative thinking in depression and anxiety (*in progress; to be revised and re-submitted to Psychological Bulletin*).

## Posters

Sunderrajan, A., Mekawi, Y., Chinmayi, T. Lohmann, S., Hughes, C. & **Balasubramaniyan, A.** Self-control, perseverative thinking and internalizing psychopathology: A meta-analytic review (2016). *Poster presented at the Society for Personality and Social Psychology Conference, San Diego, California.*

Aishwarya (Ash) Rajesh, B.E., M.S.

**Aishwarya Balasubramaniyan**, Michael Clark, Marilyn Horta, Fatma Uyar, Helmet Karim, Kirik Erickson (2015, July). Examining sex differences in a visual food cue task. *Poster presented at the Multimodal Neuroimaging Symposium on Health Neuroscience, Pittsburgh, PA.*

**Balasubramaniyan, A.**, Butter E., Mulick J.A. (2012, August). Clinician Global Ratings of Autism Symptoms: Further Development of the OACIS. *Poster session presented at the meeting of the American Psychological Association, Orlando, FL.*

Hollway J.A., Aman M., Sayre P., Tristram S., Arnold L.E., Tumorulu R., Pan J., **Balasubramaniyan A.**, Handen B. (2012, May). Social Validity and the “Children with Hyperactivity and Autism Research Treatment” study. *Poster session presented at the Research Fair, Nisonger Center, Columbus, OH.*

Pinsonneault J., **Balasubramaniyan A.**, Grantier C., Sayre P., Curtis A., Moone S., Hurt E., Sadee W., Aman M. (2011, November). Genetics Contributions to ADHD subtypes in Autism Spectrum Disorders *Poster session presented at the Ohio Center for Autism and Low Incidence (OCALI) Conference, Columbus, OH.*

## References

Arthur Kramer, PhD

Professor, Psychology and Neuroscience

University of Illinois at Urbana-Champaign

[a-kramer@illinois.edu](mailto:a-kramer@illinois.edu)

Wendy Heller, PhD

Professor, Clinical Psychology

University of Illinois at Urbana-Champaign

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Aron Barbey, PhD

Associate Professor, Cognitive Neuroscience

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