

**Anne S. Berry**  
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**EDUCATION**

**Oberlin College**, Oberlin, Ohio. BA, May 2006  
Major: Neuroscience, High Honors; GPA: 3.91  
Honor Societies: Phi Beta Kappa, Sigma Chi

**RESEARCH EXPERIENCE**

**UC SAN FRANCISCO** San Francisco, CA (August 2007-present)

**Research Assistant**, Neurology, Physiology, Adam Gazzaley MD., Ph.D.

Coordinated two therapeutic interventional studies on memory and ageing using electroencephalography (EEG) and functional magnetic resonance imaging (fMRI); recruited and tracked subjects throughout treatment; collected and analyzed data.

*major research techniques:* MRI (3T) analyzed with SPM5, EEG analyzed with Analyzer, psychological assessments.

**UC DAVIS M.I.N.D. INSTITUTE** Sacramento, CA (August 2006-July 2007)

**Research Assistant**, Psychiatry, Blythe Corbett Ph.D.

Coordinated a cross-modality attention switching fMRI and Event Related Potential (ERP) study on 8-12 year-olds with typical development, autism, and ADHD; recruited subjects; collected and analyzed data; administered neuropsychological evaluations; conducted general administrative work including that related to Institutional Review Board (IRB); trained and supervised three undergraduate assistants on fMRI techniques and Presentation.

*major research techniques:* MRI (3T) analyzed with SPM5, ERP analyzed with BESA, psychological assessments (including interview, autism and ADHD diagnostic tests, IQ, working memory/executive function tasks).

**OBERLIN COLLEGE** Oberlin, OH (September 2005-May 2006)

**Independent Honors Research**, Neuroscience, Jan Thornton, Ph.D.

Studied the effect of Luteinizing Hormone on spatial learning and memory in rats using two behavioral assays and analyzed whole-brain amyloid- $\beta$  levels; designed project; initiated collaboration with Ghiso lab at NYU; collected and analyzed data; presented posters at Society for Neuroscience and Society for Behavioral Neuroendocrinology; submitted manuscript for publication.

*major research techniques:* Barnes' Maze, novel object exploration memory assay, anxiety assay ovariectomy, silastic capsule estrogen replacement, IP and SC injection, immunoprecipitation, electrophoresis, western blot.

**NEW YORK UNIVERSITY SACKLER INSTITUTE** New York, NY (Summer 2005)

**Summer Undergraduate Research Program**, Pathology, Jorge Ghiso, Ph.D.

Isolated amyloid- $\beta$  from human brain tissue using a novel extraction technique and demonstrated its toxicity to human endothelial cells in culture; conducted research that culminated in an oral presentation at the Leadership Alliance convention and poster presentation at NYU School of Medicine; publication expected following further replication.

*major research techniques:* ELISA, immunoprecipitation, electrophoresis, western blot, mass spectroscopy, ultra-centrifuge.

**OBERLIN COLLEGE** Oberlin, OH (September 2004-March 2005)

**Research Assistant**, Neuroscience, Dennison Smith, Ph.D.

Assisted in project investigating a possible novel cannabinoid receptor; used extracellular electrophysiological recordings, harvested hippocampal brain tissue from mice.

*major research technique:* electrophysiological recording

**TUFTS UNIVERSITY** Medford, MA (Summer 2004)

**Research Experience for Undergraduates**, Biology, Philip Starks, Ph.D.

Studied chemical signaling in eusocial wasps; research culminated in an oral presentation at Tufts University and co-authorship of a published article  
*major research techniques*: gas chromatography-mass spectroscopy, PCR

## **PUBLICATIONS**

**Berry, A.S.**, Tomidokoro, Y., Ghiso, J., Thornton, J. (submitted) Human chorionic gonadotropin (a luteinizing hormone homologue) decreases spatial memory and increases brain amyloid- $\beta$  levels in female rats.

Sumana, A., Liebert, A., **Berry, A.**, Switz, G., Orians, C., Starks, P.T. 2005: Nest hydrocarbons as cues for philopatry in paper wasp. *Ethology*. 111, 469-477.

## **POSTER PRESENTATIONS**

**Berry, A.S.**, Coffey-Corina, S., Keating, R., Corbett, B.A., Bekker, E., Mangun, G.R., Cross-modal attentional switching in children with ADHD. Society for Neuroscience, November 2007.

**Berry, A.S.**, Mendoza, S., Levine, S., Corbett, B.A. Discordance between cortisol and self-report measures of anxiety in children with autism. Society of Biological Psychiatry, May 2007.

**Berry, A.S.**, Tomidokoro, Y., Ghiso, J., Thornton, J. Human chorionic gonadotropin (a luteinizing hormone homologue) decreases learning and increases brain amyloid-  $\beta$  levels in female rats. Society for Neuroscience, October 2007.

**Berry, A.S.**, Thornton, J., Luteinizing hormone decreases spatial learning and memory in female rats. Society for Behavioral Neuroendocrinology, June 2006.

**Berry, A.S.**, Tomidokoro, Y., Cam, J., Wisniewski, T., Rostagno, A., Ghiso, J. Alzheimer's disease amyloid deposits: a novel method for isolation of A $\beta$ . Sackler Institute and Leadership Alliance, July 2005.

## **PROFESSIONAL MEMBERSHIPS**

2006- Society for Neuroscience

2006- Society for Behavioral Neuroendocrinology

## **SKILLS**

**Computer:** Matlab, SPM5, Neuroscan, BESA, Biosemi, Analyzer, Presentation, E-Prime, MRIcron, Photoshop, Power Point, InDesign, Excel, Data Desk, SPSS, Prism.

## **REFERENCES**

**Dr. Adam Gazzaley**, current PI, [adamgazz@comewander.com](mailto:adamgazz@comewander.com)

**Dr. Blythe Corbett**, former PI, [blythe.corbett@ucdmc.ucdavis.edu](mailto:blythe.corbett@ucdmc.ucdavis.edu) (916) 703-0232

**Dr. Jan Thornton**, honors advisor, [jan.thornton@oberlin.edu](mailto:jan.thornton@oberlin.edu) (440) 775-8341

**Dr. Jorge Ghiso**, research mentor/collaborator, [jorge.ghiso@med.nyu.edu](mailto:jorge.ghiso@med.nyu.edu) (212) 263-5775

