

JODI GILMAN

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EDUCATION

Brown University, Providence, RI Ph.D. in Neuroscience, completed in April 2008 Graduate Partnerships Program with National Institutes of Health	August 2004- May 2008
Tufts University, Medford, MA B.S. in Biology-Psychology, 2004 Graduated <i>summa cum laude</i> , Dean's list all semesters	August 2000- May 2004

PROFESSIONAL EXPERIENCE

Research Experience

Postdoctoral Fellow	Laboratory of Neuroimaging and Genetics MGH Division of Psychiatric Neuroscience Martinos Center for Biomedical Imaging Massachusetts General Hospital Harvard Medical School <i>Mentor: Dr. Hans Breiter</i>	2010-present
Postdoctoral Fellow	Section of Brain Imaging Laboratory of Clinical and Translational Studies National Institute on Alcohol Abuse and Alcoholism National Institutes of Health <i>Mentor: Dr. Daniel Hommer</i>	2008-2009
Graduate Student	Section of Brain Imaging Laboratory of Clinical and Translational Studies National Institute on Alcohol Abuse and Alcoholism National Institutes of Health <i>Mentor: Dr. Daniel Hommer</i>	2005-2008
Graduate Student	Brown University Department of Neuroscience <i>Mentor: Dr. Sheila Blumstein</i>	2004-2005
Undergraduate Research Assistant	Tufts University Department of Psychology	2003-2004

Science Policy Experience

Health Policy Analyst	National Institute on Neurological Disorders and Stroke Office of Science Policy and Planning	2009- 2010
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BIBLIOGRAPHY

Peer-reviewed Journal Articles

1. **Gilman, J.**, Ramchandani, V., Crouss, T., and Hommer, D. 2012. Subjective and Neural Responses to Intravenous Alcohol in Young Adults with Light and Heavy Drinking Patterns. *Neuropsychopharmacology*, 37(2): 467-77.
2. **Gilman, J.**, Smith, A., Ramchandani, V., Momenan, R. and Hommer D. 2012. The Effect of Intravenous Alcohol on the Neural Correlates of Risky Decision-Making. *Addiction Biology*, 17(2):465-78.
3. Hommer, D., Bjork, J., **Gilman, J.** 2011. Imaging brain response to reward in addictive disorders. *Annals of the New York Academy of Sciences*, Jan 12 (16:50-61).
4. Hendler, R., Ramchandani, V., **Gilman, J.**, and Hommer, D. 2011. Stimulant and Sedative Effects of Alcohol. *Curr Top Behav Neurosci.*, (in press).
5. **Gilman, J.**, Davis, M., and Hommer, D. 2010. Greater activation in left hemisphere language-related regions during simple judgment tasks among substance-dependent patients in treatment for alcoholism. *Alcoholism: Clinical and Experimental Research*, 2010, Feb; 34 (20) 331-41.
6. **Gilman, J.**, Ramchandani, V., Davis, M., Bjork, J., and Hommer, D. 2008. Why we like to drink: A functional magnetic resonance imaging study of the rewarding and anxiolytic effects of alcohol. *Journal of Neuroscience*, Apr 30; 28(18):4583– 4591.

**This study generated worldwide media attention including television coverage (CTV), radio coverage (National Public Radio (NPR)'s Talk to the Nation: Science Friday broadcast), and print articles (Reuter's, UPI, etc).*

7. George, D.*, **Gilman, J.***, Hersh, J.*, Thorsell, A.*, Herion, D., Geyer, C., Peng X., Rawlings R., Gehlert, D., Tauscher J., Hommer, D., and Heilig, M. (*these authors contributed equally). 2008. Neurokinin 1 receptor antagonism as a possible therapy for alcoholism. *Science*, Mar 14; 319(5869):1536-9.
8. George D., **Gilman J.**, Hersh J., Thorsell A., Gehlert D.R., Tauscher J., Hunt S., Hommer D., Heilig M. 2008. Neurokinin 1 (NK1) receptor blockade: A novel anti-stress based mechanisms for treatment of alcoholism. *Alcohol*, 42 (4):311-311.
9. **Gilman J.** and Hommer D. 2008. Modulation of brain response to emotional images by alcohol cues. *Addiction Biology*, (13): 423-434.
10. **Gilman, J.**, Bjork, J., Hommer D. 2007. Parental alcohol use and brain volumes in early and late-onset alcoholics. *Biological Psychiatry* Sep 15; 62 (6):607-15.

** This study was featured in United Press International, Medical News Today (UK), Science Daily, DG News, eMaxHealth.com, Spero News, WebWire, EurekAlert, and other news sources.*

11. Hommer D, Momenan R, **Gilman J.** 2007. Gender and brain shrinkage in alcoholism. *Alcoholism- Clinical and Experimental Research* 31 (6): 107A

Invited Lectures

Drinking History and SRE Scores Predict Neural Activation to Intravenous Alcohol.

Research Society on Alcoholism, Atlanta, GA

Symposium entitled "fMRI Correlates of Alcoholism Risk," June 27, 2011

Why We Like to Drink: Using fMRI to Understand the Effects of Alcohol on the Brain.

Ground Rounds, Center for Addiction Medicine

Massachusetts General Hospital, Boston, MA, March 7, 2011

The Neuroscience of Alcohol and Alcohol Dependence.

Grand Rounds, Department of Psychiatry

George Washington University, Washington, D.C., April 15, 2010

Using the Alcohol Clamp to Evaluate Neural Correlates of Tolerance to Alcohol in Heavy Drinkers.

Research Society on Alcoholism, San Diego, CA

Symposium entitled "Brain Activation Patterns Related to Risk Factors for Alcoholism: An fMRI Perspective," June 23, 2009

Pharmacological fMRI and Alcohol Dependence: Applications, Experiments, and Limitations.

Eli Lilly and Company, Indianapolis, IN., Feb 6, 2008

Effect of Acute Alcohol Administration on Mesocorticolimbic Brain Structures in Social Drinkers.

Society for Neuroscience, San Diego, CA., Nov 6, 2007

Modulation of Brain Response to Emotional Images by Alcohol Cues.

Research Society of Alcoholism, Chicago, IL., July 8, 2007

How Does Parental Drinking Influence Intracranial Volume in Adult Alcoholics?

NIH Graduate Student Retreat, Sept 8, 2007

**This abstract was also selected as a finalist at the NIH Graduate Student Research Symposium in May, 2006, and was featured in the May-June 2006 issue of the NIH Catalyst.*

Selected Conference Poster Presentations

Gilman, J., Lee, S., Kuster, J., Kim, B.W., Lee, M.J., Wighton, P., and van der Kouwe, A., Blood, A.J., Breiter, H.C. Neural Mechanisms of Social Influence in Young Adult Drug Use. *American College of Neuropsychopharmacology*, Miami, FL 2012.

Gilman, J., Ramchandani, V.A., Davis, M., Bjork, J., and Hommer, D. Why we like to drink: An fMRI study of alcohol's anxiolytic and rewarding effects. *Human Brain Mapping*, Melbourne, Australia 2008.

Gilman, J. and Hommer, D. How do alcohol cues influence emotional processing in alcohol-dependent patients? *Human Brain Mapping*, Chicago IL 2007.

Gilman, J. Salloum, J., and Hommer, D. Emotional processing of high-arousal positive and negative images in alcohol-dependent patients. *Society for Neuroscience*, Atlanta, GA 2006.

Gilman, J., Bjork, J., and Hommer, D. Influence of parental alcohol use on brain volumes in alcoholics. *Human Brain Mapping*, Florence, Italy 2006.

AWARDS AND ACHIEVEMENT

Harvard Medical School, <i>Norman Zinberg Fellowship in Addiction Psychiatry Research</i>	2012-2013
NIH Loan Repayment Award Recipient	2012-2013
American Academy for the Advancement of Sciences Fellow	2010
NIH Fellows Award for Research Excellence	2008
Featured on NPR's " <i>Talk of the Nation: Science Friday</i> "	2008
Junior Investigator Award at the International Conference on Applications of Neuroimaging to Alcoholism	2008
U.S. Delegate for the 47 th Meeting of the Nobel Laureates in Lindau, Germany	2007
NSF Honorable Mention Recipient	2004, 2005
Phi Beta Kappa	2004

RESEARCH SUPPORT

Ongoing Research Support

Norman E. Zinberg Fellowship in Addiction Psychiatry Research 7/1/2012 – 6/30/2013
Decision-Making in the Context of Social Influence in Young Adult Marijuana Users
This fellowship, available through Department of Psychiatry at Harvard Medical School, will provide salary and research expenses to conduct behavioral and neuroimaging studies in college-aged marijuana users, with the goal of investigating brain mechanisms of decision-making that may be altered in this population.
Role: PI

Completed Research Support

Intramural Research Training Award (IRTA) from NIAAA 2006-2010
The goal of this research was to study the structural and functional abnormalities present in alcoholic patients, with emphasis on emotion-related and reward processing; also, to study the acute effects of alcohol on the brain.
Role: Co-investigator/Graduate Student

TEACHING/ TUTORING EXPERIENCE

Lecturer	Foundation for Advanced Education in the Sciences Course: Brain Imaging Techniques	2006-2007
Tutor	Brown University Writing Center Writing Fellow	2004-2005

PROFESSIONAL MEMBERSHIPS

Member	American Association for the Advancement of Science	2009-2011
Member	Society for Neuroscience	2005-2011
Member	Research Society for Alcoholism	2006-2011
Member	Human Brain Mapping	2006-2011

JOURNAL REFEREEING

Addiction Biology

Alcoholism: Clinical and Experimental Research

Neuropsychopharmacology

Psychopharmacology