

CURRICULUM VITAE

James Andrew Waltz, Ph.D.
Assistant Professor, Department of Psychiatry
University of Maryland School of Medicine

Date: March 7, 2014

Contact Information

Business Address: University of Maryland School of Medicine
Department of Psychiatry
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Languages: English (native), German (fluent)

Education

1990 – 1994 BA, Psychology (Cognitive Science), Yale University, New Haven, CT
1994 – 1995 MA, Psychology (Cognitive Neuroscience), UCLA
1995 – 1999 PhD, Psychology (Cognitive Neuroscience), UCLA

Post Graduate Education and Training

1999 – 2004 Postdoctoral Fellow, Neurophysiology Department,
Max Planck Institute for Brain Research, Frankfurt a.M., Germany
2000 Course in experimental animal basics and animal experimental methods
Academy for Supplementary Education at the Universities of Heidelberg and Mannheim,
Germany
2004 – 2006 Postdoctoral Fellow, Dept Psychiatry/MPRC, UMSOM
2007 Course in Neuropharmacology: Basic to Clinical Approaches (GPiLS 604), UMB
Graduate Program in the Life Sciences

Academic Appointments

2006 – present Assistant Professor, Dept Psychiatry/MPRC, UMSOM,

Professional Memberships

1995 – present Society for Neuroscience
1995 – present Cognitive Neuroscience Society
2008 American Psychological Society

Honors and Awards

1990 – 1994	National Merit Scholarship
1990 – 1994	Academic Scholarship, McDermott, Inc.
1994 – 1995	University Fellowship, University of California
1995	Honorable Mention, National Science Foundation Graduate Research Fellowship
1996	Honorable Mention, Department of Defense Graduate Research Fellowship
1996	Honorable Mention, National Science Foundation Graduate Research Fellowship
1996 – 1997	Ursula Mandel Fellowship, University of California
1998 – 1999	National Research Service Award, National Institutes of Health
1998 – 1999	Predocutorial Fellowship, John Douglas French Foundation for Alzheimer's Research
1999	Joseph A. Gingerelli Award for the Distinguished Dissertation, Psychology Dept, UCLA
1999	Postdoctoral Fellowship, Alexander von Humboldt Foundation (declined)
1999 – 2000	Postdoctoral Fellowship, John Douglas French Foundation for Alzheimer's Research
1999 – 2003	Postdoctoral Fellowship, McDonnell-Pew Program in Cognitive Neuroscience
2003 – 2004	Postdoctoral Fellowship, Max Planck Institute for Brain Research
2004 – 2006	Postdoctoral Fellowship, UMSOM/MPRC
2009	H. McKee Jarboe Award for Outstanding Research in Psychiatry, UMSOM

Administrative Service**Institutional Service**

2007 – 2008	Member, UMSOM Institutional Review Board
2012 – present	Member, UMSOM Council
2013	Grant Reviewer and Study Section Member, UMB-UMCP Seed Grant Competition
2013	Grant Reviewer and Study Section Member, UMB-UMBC Seed Grant Competition

National Service**Ad-hoc Journal Reviewer**

2003 – present	<i>Cerebral Cortex</i>
2005 – present	<i>Journal of the International Neuropsychological Society</i>
2008 – present	<i>Schizophrenia Bulletin</i>
2009 – present	<i>Biological Psychiatry; Schizophrenia Research; Human Brain Mapping</i>
2010 – present	<i>Cognition</i>
2011 – present	<i>JAMA Psychiatry; Public Library of Science - ONE</i>
2012 – present	<i>Psychiatry Research; Journal of Clinical Psychiatry</i>
2013	<i>Molecular Psychiatry; Neuropsychopharmacology; Frontiers in Human Neuroscience; Journal of Psychiatry and Neuroscience; Cognitive, Affective, and Behavioral Neuroscience; Neuroscience and Biobehavioral Reviews; Progress in Neuro-Psychopharmacology & Biological Psychiatry</i>

Journal Action Editor

2013	<i>Schizophrenia Bulletin, Frontiers in Schizophrenia</i>
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Ad-hoc Grant Reviewer

2010	Netherlands Organisation for Scientific Research (NWO)
2011	National Science Foundation
2014	Polish National Science Centre

Other

2013

Young Investigator Mentor, International Congress on Schizophrenia Research

Teaching ServiceUCLA

6/1995 - 8/1995 Teaching Assistant, Psychology 120, Cognitive Psychology
 1/1996 - 6/1996 Teaching Assistant, Psychology 120, Cognitive Psychology
 1/1997 - 4/1997 Teaching Assistant, Psychology 42, Research Methods
 4/1997 - 6/1997 Teaching Associate, Psychology 116, Laboratory for Behavioral Neuroscience
 9/1997 - 12/1997 Teaching Associate, Psychology 85, Introduction to Cognitive Science
 1/1998 - 3/1998 Teaching Associate, Psychology 121, Laboratory for Cognitive Psychology

Johann-Wolfgang-Goethe University, Frankfurt a.M., Germany

9/2001 – 5/2002 Lecturer, Seminar in Cognitive Neuroscience, 2 hours/week, 15 students
 9/2002 – 5/2003 Lecturer, Seminar in Cognitive Neuroscience, 2 hours/week, 15 students

UMSOM

9/2007 Lecturer, CAPP Med Student Psychiatry Mini-Elective, 2 hours, 6 students
 4/2009 Lecturer, CAPP Med Student Psychiatry Mini-Elective, 2 hours, 6 students
 4/2011 Lecturer, CAPP Med Student Psychiatry Mini-Elective, 2 hours, 6 students
 4/2012 Lecturer, CAPP Med Student Psychiatry Mini-Elective, 2 hours, 6 students
 4/2013 Lecturer, CAPP Med Student Psychiatry Mini-Elective, 2 hours, 6 students
 4/2013 Lecturer, GPLS 781, Translational Psychiatry, 2 hours, 12 students

Mentoring

1 Post-doctoral Research Fellow, for a total of 1 year
 1 Post-baccalaureate Research Analyst, for a total of 1 year
 3 Post-baccalaureate Research Assistants, for a total of 5 years

Grant Support**Active Grants**

4/1/2012 – 3/31/2017 Principal Investigator (40% effort, 40% salary support)
 "Neurocomputational and fMRI Studies of Motivational Deficits in Schizophrenia"
 NIH R01 MH094460-01A1
 Annual Direct Costs: \$400,286
 Total Direct Costs: \$2,001,428

8/1/2013 – 7/31/2018 Co-Investigator (25% effort, 25% salary support; PI: J. Gold)
 "Clinical and Computational Studies of Dopamine Function in Schizophrenia"
 NIH 2 R01 MH080066-06A1
 Annual Direct Costs: \$500,000
 Total Direct Costs: \$2,500,000

Completed Grants

- 3/1/2010 – 2/29/2012 Principal Investigator (20% in Year 1, 40% in Year 2)
 "Neuroimaging of Food Reinforcer Processing in Schizophrenia"
 NIH R21 MH086739 (PI: J. Waltz)
 Received funds for research assistant and operational costs
 Annual Direct Costs: \$206,250
 Total Direct Costs: \$412,500
- 7/15/2006 – 7/14/2011 Project PI (Contract PI: D. Kelly)
 Contract Title: Residential Research Support Services
 Project Title: Neuroimaging of Reward-based Learning in Schizophrenia
 Contract No. HHSN271200599091C/ADB Contract No. N0 1DA-5-9909
 Received funds for research assistant and operational costs
 Annual Direct Costs (Project): \$291,806/4 years
 Total Direct Costs (Project): \$291,806/4 years
 Total Costs (Grant): \$13,074,663/7 years
- 7/15/2006 – 7/14/2011 Project PI (75%; PI: A. Shuldiner)
 Program Title: UM SOM Multidisciplinary Clinical Research Career Development Program
 Project Title: Neuroimaging of Reward-based Learning in Schizophrenia
 NIH 5 K12 RR023250-02
 Received funds for research assistant and operational costs
 Annual Direct Costs (Project): \$425,166/5 years
 Total Direct Costs (Project): \$425,166/5 years
 Total Costs (Grant \$13,285,225/5 years

Publications**Articles in Peer-reviewed Journals**

1. **Waltz, J.A.**, Knowlton, B.J., Holyoak, K.J., Boone, K.B., Mishkin, F.S., de Menezes Santos, M., Thomas, C.R., and Miller, B.L. (1999). A system for relational reasoning in human prefrontal cortex. *Psychological Science*, *10*, 119-125
2. **Waltz, J.A.**, Lau, A., Grewal, S., and Holyoak, K.J. (2000). The role of working memory in analogical reasoning. *Memory & Cognition*, *28*, 1205-1212.
3. Linden, D.E.J., Bittner, R.A., Muckli, L., **Waltz, J.A.**, Kriegeskorte, N., Goebel, R., Singer, W., and Munk, M.H.J. (2003). Cortical capacity constraints for visual working memory: Dissociation of fMRI load effects in a fronto-parietal network. *NeuroImage*, *20*, 1518-1530.
4. **Waltz, J.A.**, Knowlton, B.J., Holyoak, K.J., Boone, K.B., Back, C., McPherson, S., Masterman, D., Chow, T., Cummings, J.L., and Miller, B.L. (2004). Relational integration and executive function in Alzheimer's disease. *Neuropsychology* *18*, 296-305.
5. **Waltz, J.A.**, Frank, M.J., Robinson, B.M., and Gold, J.M. (2007). Selective reinforcement learning deficits in schizophrenia support predictions from computational models of striato-cortical dysfunction. *Biological Psychiatry* *62*, 756-764.
6. **Waltz, J.A.**, and Gold, J.M. (2007). Probabilistic reversal learning impairments in schizophrenia: further evidence of orbitofrontal dysfunction. *Schizophrenia Research* *93*, 296-303.
7. Lu, H., Zuo, Y., Gu, H., **Waltz, J.A.**, Zhan, W., Scholl, C.A., Rea, W., Yang, Y., and Stein, E.A. (2007). Synchronized Delta Oscillations Correlate with the Resting-state fMRI Signal. *Proc. Natl. Academy Sciences*, *104*, 18265-18269.
8. Gold, J.M., **Waltz, J.A.**, Prentice, K.J., Morris, S.E., Heerey, E.A. (2008). Reward Processing in Schizophrenia: A Deficit in the Representation of Value. *Schizophrenia Bulletin* *34*, 835-847.

9. **Waltz, J.A.**, Schweitzer, J.B., Gold, J.M., Kurup, P.K., Ross, T.J., Salmeron, B.J., Rose, E.J., McClure, S.M., Stein, E.A. (2009). Patients with Schizophrenia have a Reduced Neural Response to Both Unpredictable and Predictable Primary Reinforcers. *Neuropsychopharmacology*, *34*, 1567-77.
10. Gold, J.M., Hahn, B., Strauss, G.P., **Waltz, J.A.** (2009). Turning it upside down: areas of preserved cognitive function in schizophrenia. *Neuropsychology Review*, *19*, 294-311.
11. Haenschel, C., Bittner, R., **Waltz, J.A.**, Haertling, F., Wibrall, M., Singer, W., Linden, D.E.J., and Rodriguez, E. (2009). Cortical oscillatory activity is critical for working memory as revealed by deficits in early onset schizophrenia. *Journal of Neuroscience*, *29*, 9481-89.
12. Pipa, G., Städtler, E.S., Rodriguez, E.F., **Waltz, J.A.**, Muckli, L.F., Singer, W., Goebel, R., Munk, M.H. (2009). Performance- and stimulus-dependent oscillations in monkey prefrontal cortex during short-term memory. *Frontiers in Integrative Neuroscience*, *3*, 25. Epub 2009 Oct.
13. **Waltz, J.A.**, Schweitzer, J.B., Ross, T.J., Kurup, P.K., Salmeron, B.J., Rose, E.J., Gold, J.M., Stein, E.A. (2010). Abnormal responses to monetary outcomes in cortex, but not in the basal ganglia, in schizophrenia. *Neuropsychopharmacology*, *35*, 2427-39. Epub 2010 Aug 18. PMID: 20720534; PMCID: PMC2955756.
14. **Waltz, J.A.**, Frank, M.J., Wiecki, T.V., Gold, J.M. (2011). Altered probabilistic learning and response biases in schizophrenia: Behavioral evidence and neurocomputational modeling. *Neuropsychology*, *25*, 86-97. PMID: 21090899.
15. Strauss, G.P., Robinson, B.M., **Waltz, J.A.**, Frank, M.J., Kasanova, Z., Herbener, E.S., Gold, J.M. (2011). Patients with schizophrenia demonstrate inconsistent preference judgments for affective and non-affective stimuli. *Schizophrenia Bulletin*, *37*, 1295-1304. Epub 2010 May 19. PMID: 20484522.
16. Kasanova, Z., **Waltz, J.A.**, Strauss, G.P., Frank, M.J., Gold, J.M. (2011). Optimizing vs. Matching: Response Strategy in a Probabilistic Learning Task is associated with Negative Symptoms of Schizophrenia. *Schizophrenia Research*, *127*, 215-222. Epub 2011 Jan 15. PMID: 21239143.
17. Strauss, G.P.* , Frank, M.F.* , **Waltz, J.A.**, Kasanova, Z., Herbener, E.S., Gold, J.M. (2011). Deficits in Positive Reinforcement Learning and Uncertainty-Driven Exploration are Associated with Distinct Aspects of Negative Symptoms in Schizophrenia. *Biological Psychiatry*, *69*, 424-431. Epub 2010 Dec 17. PMID: 21168124 (*authors contributed equally to this work).
18. Boggs, D.L., Kelly, D.L., McMahon, R.P., Gold, J.M., Gorelick, D.A., Linthicum, J., Conley, R.R., Liu, F., **Waltz, J.**, Huestis, M.A., Buchanan, R.W. (2011). Rimonabant for neurocognition in schizophrenia: a 16-week double blind randomized placebo controlled trial. *Schizophrenia Research*, *134*, 207-210. Epub 2011 Dec 3. PMID: 22137462.
19. Gold, J.M. **Waltz, J.A.**, Matveeva, T.M., Kasanova, Z., Strauss, G.P., Herbener, E.S., Collins, A.G.E., Frank, M.J. (2012). Negative symptoms in schizophrenia result from a failure to represent the expected value of rewards: Behavioral and computational modeling evidence. *Archives of General Psychiatry*, *69*, 129-138. PMID: 22310503.
20. Strauss, G.P., Lee, B.G., **Waltz, J.A.**, Robinson, B.M., Brown, J.K., Gold, J.M. (2012). Cognition-emotion interactions are modulated by working memory capacity in individuals with schizophrenia. *Schizophrenia Research*, *141*, 257-261. Epub 2012 Sep 8. PMID: 22968207.
21. Simpson, E.H., **Waltz, J.A.**, Kellendonk, C., Balsam, P.D. (2012). Schizophrenia in Translation: Dissecting Motivation in Schizophrenia and Rodents. *Schizophrenia Bulletin*, *38*, 1111-1117. Epub 2012 Sep 26. PMID: 23015686.
22. **Waltz, J.A.**, Kasanova, Z., Ross, T.J., Salmeron, B.J., McMahon, R.P., Gold, J.M., Stein, E.A. (2013). The roles of reward, default, and executive control networks in set-shifting impairments in schizophrenia. *PLoS-ONE*, *8*, e57257. Epub 2013 Feb 27. PMID: 23468948. PMCID: PMC3584128.

23. Brown, J.K., **Waltz, J.A.**, Strauss, G.P., McMahon, R.P., Frank, M.J., Gold, J.M. (2013). Hypothetical decision making in schizophrenia: The role of expected value computation and "irrational" biases. *Psychiatry Research*, 202, 142-149. Epub 2013 May 9. PMID: 23664664.
24. Gold, J.M., Strauss, G.P., **Waltz, J.A.**, Robinson, B.M., Brown, J.K., Frank, M.J. (2013). Negative Symptoms of Schizophrenia Are Associated with Abnormal Effort-Cost Computations. *Biological Psychiatry*, 74, 130-136. Epub 2013 Feb 7. PMID: 23394903.
25. Doll, B.B., **Waltz, J.A.**, Cockburn, J., Brown, J.K., Frank, M.J., Gold, J.M. (In Press). Reduced susceptibility to confirmation bias in schizophrenia. *Cognitive, Affective, and Behavioral Neuroscience*. Epub 2014 Jan 31. PMID: 24481852.
26. Strauss, G.P., **Waltz, J.A.**, Gold, J.M. (In Press). A review of reward processing and motivational impairment in schizophrenia. *Schizophrenia Bulletin*, 40, S107-16. Epub 2013 Dec 27. PMID: 24375459. PMCID: PMC3934394.
27. Rose, E.J., Salmeron, B.J., Ross, T.J., **Waltz, J.**, Schweitzer, J.B., McClure, S.M., Stein, E.A. (In Press). Temporal Difference Error Prediction Signal Dysregulation in Cocaine Dependence. *Neuropsychopharmacology*. Epub 2014 Jan 29. PMID: 24569319.

Book Chapters

1. **Waltz, J.A.** (2003). Working memory. In M.J. Aminoff and R.B. Daroff (Eds.), *Encyclopedia for Neurological Sciences*. San Diego, CA: Academic Press.
2. **Waltz, J.A.** (2005). Impairments of Memory and Reasoning in Patients with Neuropsychiatric Illness: Disruptions of Dynamic Cognitive Binding? In R. W. Engle, G. Sedek, U. von Hecker, D. N. McIntosh (Eds.), *Cognitive Limitations in Aging and Psychopathology: Attention, Working Memory, and Executive Functions*. New York, NY: Cambridge University Press.

Other Brief Communications

1. **Waltz, J.A.**, Knowlton, B.J., and Holyoak, K.J. (1998). Relational reasoning, the central executive, and prefrontal cortex. *Behavioural and Brain Sciences*, 21, 846-847.

First-author Abstracts/Proceedings

1. **Waltz, J.A.**, Holyoak, K.J., and Halford, G.S. (1996). The Role of Working Memory in Schema Induction. *Proceedings of the Cognitive Science Society*, 18, 863.
2. **Waltz, J.A.**, Knowlton, B.J., Holyoak, K.J., Boone, K.B., and Miller, B.L. (1997). Relational Reasoning in Fronto-temporal Dementia. *Society for Neuroscience Abstracts*, 23, 258.
3. **Waltz, J.A.**, Knowlton, B.J., Holyoak, K.J., Boone, K.B., and Miller, B.L. (1998). A Double Dissociation between Declarative Memory and Relational Reasoning. *Journal of Cognitive Neuroscience*, 10, S48.
4. **Waltz, J.A.**, Knowlton, B.J., Holyoak, K.J., Masterman, D., Tom, T., Boone, K.B., and Miller, B.L. (1998). Performance of Patients with Dementia of Alzheimer's Type on Relational Reasoning Tasks Sensitive to Prefrontal Cortical Damage. *Society for Neuroscience Abstracts*, 24, 258.
5. **Waltz, J.A.**, Knowlton, B.J., Holyoak, K.J., Boone, K.B., Masterman, D., Chow, T., Reback, E., Barclay, T., Carr, L., O'Connor, S., Mishkin, F.S., and Miller, B.L. (1999). Performance on the N-back task dissociates DAT patients with prefrontal cortical impairment from those without. *Journal of Cognitive Neuroscience*, 11, S34.
6. **Waltz, J.A.**, Linden, D.E.J., Prvulovic, D., Singer, W., and Munk, M.H.J. Joint time-frequency analysis of EEG activity in humans performing a delayed discrimination task: The effect of short-term memory load (2001). *Journal of Cognitive Neuroscience*, 13, S88.
7. **Waltz J.**, Linden D., Bittner R., Muckli L., Singer W., Goebel R., and Munk, M. (2002). Correspondence between EEG Gamma Band Activity and fMRI Bold Activity in Humans

Performing Visual Short Term Memory Tasks. *3rd Forum of the Federation of European Neuroscience Societies, Book of Abstracts*.

8. **Waltz, J.A.**, Linden, D.E.J., Bittner, R., Muckli, L., Goebel, R., Singer, W., and Munk, M.H.J. (2002). Working memory load-dependent changes in the power of evoked and induced oscillations in the EEG. *Society for Neuroscience Abstracts*, 28.
9. **Waltz, J.A.**, Rodriguez, E.F., Fries, P., Staedtler, E.S., Muckli, L.F., Goebel, R., Pipa, G., Singer, W., Munk, M.H.J. (2003). Enhanced spike-field coherence in macaque prefrontal cortex associated with better performance on delayed-response task. *Society for Neuroscience Abstracts*, 29.
10. **Waltz, J.A.**, Haenschel, C., Bittner, R. A., Haertling, F., Rotarska-Jagiela, A., Maurer, K., Singer, W., Linden, D. E. (2005). Reduced P100 amplitude in schizophrenics is associated with abnormal evoked and induced gamma-band activity and intertrial phase-locking values. *Schizophrenia Bulletin* 31, S466.
11. **Waltz, J.A.**, Frank, M.J., Robinson, B.M., Gold, J.M. (2006). Impairments in Probabilistic Learning in Schizophrenia: The Role of Reinforcement. *Biological Psychiatry* 59, 113S.
12. **Waltz, J.A.**, Frank, M.J., Gold, J.M. (2007). Patients with schizophrenia show impaired reward-driven learning, despite an increased rate of responding, in a novel Go-NoGo learning task. *Schizophrenia Bulletin* 33, S548.
13. **Waltz, J.A.**, Schweitzer, J.B., Gold, J.M., Kurup, P.K., Ross, T.J., Salmeron, B.J., Rose, E.J., Warren, K.R.B., McClure, S.M., Stein, E.A. (2007). Brain Responses to Temporal Difference Errors in a Passive Learning Task in Patients with Schizophrenia. *NeuroImage* 36, S66.
14. **Waltz, J.A.**, Schweitzer, J.B., Gold, J.M., Kurup, P.K., Ross, T.J., Salmeron, B.J., Rose, E.J., Warren, K.R.B., McClure, S.M., Stein, E.A. (2007). Functional MRI correlates of abnormal prediction error signalling in schizophrenia. *Society for Neuroscience Abstracts*, 33.
15. **Waltz, J.A.**, Wonodi, I., Elliot, A., Lin, P., Hong, L.E., Gold, J.M., Thaker, G. Genetic Influences on Reinforcement Learning Performance in Schizophrenia (2008). Brain Responses to Temporal Difference Errors in a Passive Learning Task in Patients with Schizophrenia. *Biological Psychiatry* 63, 267S.
16. **Waltz, J.A.**, Schweitzer, J.B., Gold, J.M., Rose, E.J., Kurup, P.K., Salmeron, B.J., Ross, T.J., Stein, E.A. (2008). Neural responses to monetary outcomes in patients with schizophrenia. *Society for Neuroscience Abstracts*, 34.
17. **Waltz, J.A.**, Schweitzer, J.B., Gold, J.M., Rose, E.J., Kurup, P.K., Salmeron, B.J., Ross, T.J., McClure, S.M., Stein, E.A. (2009). Neural correlates of the subjective experience of reward in schizophrenia. *Schizophrenia Bulletin*, 35, S548.
18. **Waltz, J.A.**, Gold, J.M., Kasanova, Z., Ross, T.J., Salmeron, B.J., Kurup, P.K., Stein, E.A. (2009). Neural correlates of probabilistic reversal learning performance in schizophrenia. *Neuropsychopharmacology*, 34.
19. **Waltz, J.A.**, Kasanova, Z., Ross, T.J., Salmeron, B.J., Kurup, P.K., Gold, J.M., Stein, E.A. (2010). Abnormal neural responses associated with feedback-driven switching in schizophrenia. *Society for Neuroscience Abstracts*, 36.
20. **Waltz, J.A.**, Kasanova, Z., Frank, M.J., Ross, T.J., Salmeron, B.J., Kurup, P.K., Gold, J.M., Stein, E.A. (2010). Neural correlates of model-based reinforcement learning parameters in healthy volunteers and patients with schizophrenia. *Neuropsychopharmacology*, 35.
21. **Waltz, J.A.**, Frank, M.J., Kasanova, Z., Strauss, G.P., Gold, J.M. (2011). Selective deficits in reward-driven probabilistic learning in schizophrenia point to dopamine D1 receptor dysfunction. *Schizophrenia Bulletin*, 37, S232.
22. **Waltz, J.A.**, Kasanova, Z., Ross, T.J., Salmeron, B.J., Gold, J.M., Stein, E.A. (2011). Investigating the Neural Substrates of Negative Symptoms: Results from fMRI Studies of Outcome Processing in Schizophrenia. *Schizophrenia Bulletin*, 37, S232.

23. **Waltz, J.A.**, Brown, J.K., Frank, M.J., Strauss, G.P., Gold, J.M. (2012). Erratic Decision Making in Schizophrenia: The Roles of Normative Biases and Expected Value Computation. *Biological Psychiatry* 67, S89.
24. **Waltz, J.A.**, Brown, J.K., Ross, T.J., Salmeron, B.J., Gold, J.M., Stein, E.A. (2012). Sensory-specific satiety in schizophrenia. *Neuropsychopharmacology*, 37.

Major Invited Speeches

1. Waltz, J.A., Time Course of EEG Gamma Band Power in Humans and Macaques Performing Short-term Memory Tasks. Presented in Symposium "Visual Perception," 5th Annual Meeting of the German Cognitive Neuroscience Society, Leipzig, Germany, September 2001.
2. Waltz, J.A., Studies of Working Memory and Reasoning in Patients with Schizophrenia and Dementia. Presented at symposium, "Cognitive Processes in Psychological States Potentially Impairing Adaptive Functioning," Kazimierz Dolny, Poland September 2002.
3. Waltz, J.A., Working Memory Load-Dependent Changes in the Power of Evoked and Induced Oscillations in the EEG. presented at the Annual Institute Symposium of the Max Planck Institute for Brain Research, Frankfurt a.M., Germany, December 2002.
4. Waltz, J.A., Representations of Symbols in Nonhuman Primates. Presented in Lecture Series "Cognitive Neurophysiology," Johann-Wolfgang-Goethe University, Frankfurt a.M., Germany, May 2003.
5. Waltz, J.A., Short-term Memory and Oscillatory Neuronal Activity in Macaque Prefrontal Cortex. Seminar presented in Laboratory for Neuropsychology, NIH, Bethesda, MD, November 2003.
6. Waltz, J.A., Electrophysiological Studies of Short-term Memory in Humans and Nonhuman Primates. Seminar presented in Clinical Brain Disorders Branch, NIH, Bethesda, MD, March 2004.
7. Waltz, J.A., Deficits in Reward Processing and Reinforcement Learning In Schizophrenia. Presented in Center for Cognitive Medicine, Department of Psychiatry, University of Illinois, Chicago, June 2007
8. Waltz, J.A., Neural Substrates of Reinforcement Learning and Their Relevance to Schizophrenic Psychopathology. Presented in Neuroscience Division, Frankfurt Institute for Advanced Studies, Frankfurt a.M., Germany. August 2007.
9. Waltz, J.A., Neuroimaging of Reward Processing in Schizophrenia. Presented in the Columbia University Department of Psychiatry/New York State Psychiatric Institute, New York, NY. Feb. 2011.
10. Waltz, J.A., Selective deficits in reward-driven probabilistic learning in schizophrenia point to dopamine D1 receptor dysfunction. Participant in oral symposium, " Probabilistic feedback learning in schizophrenia: Mechanisms, etiology, and treatment", at 13th International Congress on Schizophrenia Research, April 2011, Colorado Springs, Colorado.
11. Waltz, J.A., Investigating the neural substrates of negative symptoms: Results from fMRI studies of outcome processing in schizophrenia. Participant in poster symposium, " Reward, Learning, and Motivational Drive in Schizophrenia: The Role of Prefrontal-Striatal Interactions", at 13th International Congress on Schizophrenia Research, April 2011, Colorado Springs, Colorado.
12. Waltz, J.A., Functional MRI correlates of positive and negative symptoms in schizophrenia. Participant in study group, "NIMH Research Domain Criteria Project: How will the criteria work for studies of diagnosis and new drug development?" at 51st Annual Meeting of the American College of Neuropsychopharmacology, December 2012, Hollywood, Florida
13. Waltz, J.A., Motivational Deficits and the Physiology of Reward Processing. Colloquium given to the Department of Psychology, UMBC, January 2013.
14. Waltz, J.A., Do's and don'ts of being an independent researcher. Participant in symposium, "Transitioning to Independence", sponsored by Research Career Development Program, UMSOM, Baltimore, MD, July 2013.