

Integrating Undergraduate and Graduate Research in the Psychology Department at the College of William & Mary

Prepared by the Department of Psychology Research Committee

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Psychology Department Mission Statement

The Psychology Department of W&M is committed to the development, dissemination, and application of new knowledge in the psychological sciences. Consistent with this commitment, the Department strives to attract and support a faculty that is nationally and internationally recognized for excellence in research. The Department also strives to provide excellent undergraduate and graduate programs of study in the psychological sciences. Our goal is for students at all levels to develop knowledge and critical thinking skills through didactic, laboratory, and practical training experiences, and hence, an understanding of the relationships among theory, research, and application.

Overview of Psychology Department Research: Integration of Graduate and Undergraduate Students

Our department provides a number of mechanisms for undergraduate and graduate students to become involved in research. The breadth of our faculty research interests provides a range of research areas for students. Many students are introduced to a research area through directed readings, independent research, or simply because they choose to volunteer. These students often learn to develop relatively independent research projects, with some guidance from a faculty mentor, which can serve as the basis for an honors thesis. Students in our M.A. program become involved in research early in their graduate career. The amount of work these students complete is impressive, as evidenced by the programs many of them choose to attend for their doctoral work. Within the last three years alone, our M.A. students are now in (or will be in) doctoral programs including: Michigan State University, Northwestern University, University of California, Santa Barbara, University of Michigan, University of Virginia, University of Washington. Our Psy.D. program (a consortium of four institutions) is recognized for being unique in the emphasis it places on students conducting empirical research.

Faculty in the department do not simply manage these programs (undergraduate, M.A., Psy.D.) independently but often provide opportunities for the students in these different programs to work together. Our rationale is that the undergraduate students will learn through interactions with more experienced students. Our graduate students will gain valuable experience in mentoring more junior colleagues. Finally, the interactions between faculty and students of such wide backgrounds create a vibrant intellectual atmosphere leading to new discoveries within the field of psychology.

The information contained within this report is designed to demonstrate our recent successes in conducting high-quality research with undergraduate and graduate students at the College of William & Mary. Over the past five years, at least one undergraduate co-author has been listed on 21 publications and 55 conference presentations. During that time, at least one graduate co-author has been listed on 25 publications and 45 conference presentations. Furthermore, 3 publications and 7 conference presentations during this time have included both graduate and undergraduate co-authors. For clarification, this report does not represent the total work accomplished by the faculty – indeed, independent faculty published work is not represented as that is not the goal of this report. However, faculty have been successful in obtaining funds from government sources (e.g., 3 RO1 grants from the National Institutes of Health) and from private sources (e.g., Jeffress Memorial Trust, Virginia Youth Tobacco Project) to support the research success of our undergraduate and graduate students.

Description of Vertical Integration of Undergraduate and Graduate Student Research

One MA student in Josh Burk's lab recently demonstrated that testosterone administration impairs attention, and there is now an article concerning these findings in press. Two undergraduates assisted with the data collection and analysis for this research. Collectively, the undergraduates have served as co-authors on presentations of this work at the Society for Neuroscience conference, the Undergraduate Neuroscience Symposium (Fall 2005), and at the upcoming Undergraduate Science conference.

Joe Galano's grantsmanship has had a direct and positive effect on undergraduate and graduate students. Approximately 36 students have worked as members of my Healthy Families Virginia research team over the past six years. Virtually all of the undergraduates have been paid and I was able to fund a Master's student's stipend. One doctoral dissertation, one master's thesis, one honors project, and several senior research projects have been produced as a result of students' collaboration with me. Four undergraduate students participated in the new summer research assistant housing program.

Pamela Hunt always assigns undergraduates to help her graduate students collect data. The graduate student trains and supervises the undergraduates, and many times the undergraduate is listed as a co-author with the graduate student on a publication. In addition to explaining research-relevant material, the graduate students offer practical advice to the undergraduate students and, in general, teach them about graduate school.

Psychology Professors Harvey Langholtz and Chris Ball's 2002 book entitled "Resource-Allocation Behavior" brought together several years of research they had conducted that included six journal articles and professional presentations by two undergraduate and three graduate co-researchers and co-authors. Undergrad Computer Science major Barron Sopchack developed the software, while classmate Jacqueline Bell and Professor Ball analyzed subject responses. Among the graduate students, Eric Nolan compared behavior to mathematical models, Roxanne Gonzales examined resource-allocation to achieve fixed goals, while Antoinette Marty examined broader social issues of resource-allocation. Their book has been called "the gold standard" in its field.

In Constance Pilkington's lab, undergraduate, MA, and PsyD students work together to study applied and theoretical aspects of close relationships. Current examples include a PsyD student who is conducting her dissertation on aggression in romantic relationships. Her experiment is based on the Honors thesis of a previous undergraduate student and is being conducted with the help of two undergraduate research assistants, one of whom is planning to do her own Honors thesis in Pilkington's lab next year. An MA student is conducting his thesis research on the impact of safer sex messages in the media on trust in romantic relationships; his work is based on three previous Honors theses. And a first-year MA student is analyzing the thoughts participants report having when they are having an initial interaction with a member of the opposite sex; these data come from a

larger project, the data for which were collected by a (different) PsyD student and three independent study students.

Jennifer Stevens has both Masters and Honors students conducting their thesis research in her Cognitive Neuroscience Lab. Theirs are unique studies that relate to the primary interest of the lab - action representation – and offer a second dimension to the structure of the lab's research program. The result is an integrated and energetic lab which provides a rich and compelling learning environment for the independent study researchers.

Todd Thrash and his students are currently conducting research on implicit-explicit motive congruence, inspiration and the writing process, and humor production. Two M.A. students and one undergraduate honors student are currently working in Thrash's lab. In addition, approximately 10 undergraduate psychology majors per semester assist with data collection and data coding. As part of his research on inspiration and writing, Thrash has hired several panels of English majors and graduate students from the American Studies department to evaluate technical aspects of participants' writing quality and style. Two manuscripts with graduate students as co-authors are in preparation.

In Neill Watson's clinical psychology lab, dissertation students typically work with a team of undergraduates who assist with data collection and entry or have a more central role. For example, two undergraduate honors students will be coauthors on a study of the relation of disordered eating to self-discrepancy, anxiety, and depression; for this research, the undergraduates conducted the first of two studies, which led to the dissertation as a second study.

In only her first year at the College, Janice Zeman already has graduate and undergraduate students working in her lab, examining children's and adolescents' emotional expressivity and psychosocial functioning. Two graduate students (one in the MA program and one in the PsyD program) contribute to the research, as do three undergraduate students. All students attend weekly meetings and are involved in data collection in the public school system, data coding and entry, and data analysis. The results from this study will be presented at international conferences in which the students will be co-authors.

Recent Publications with W&M Undergraduate Psychology Students

Undergraduate students denoted in bold

* Includes both undergraduate and graduate co-authors

Ball, C. T., & **Stephen, D. G.** (under review). Does subjective probability reasoning explain coincidence perception?

The work with Damian Stephen (now a Ph.D. student at the University of Connecticut) began in his sophomore year and culminated in three studies. One was conducted as an Independent research project and the other two comprised his honors thesis (which he received a Highest Honors grade). The first study was presented at the North Carolina Cognition Conference meeting and is now under review at the journal Applied Cognitive Psychology. We are currently working on some final edits to the draft of a second paper that we hope to submit soon. Damian played an equal role in the design and analysis of these experiments, although I probably contributed more to the paper and poster submissions. I really view him as a colleague rather than as a student.

Ball, C. T., & **Little, J. A.** (in press). A comparison of involuntary autobiographical memory retrievals. *Applied Cognitive Psychology*.

Hallmark, R. A., & Hunt, P. S. (2004). Social learning about ethanol in preweanling rats: Role of endogenous opioids. *Developmental Psychobiology*, 44, 132-139.

Hill, K., & Langholtz, H. (2003). Rehabilitation Programs for African Child Soldiers. *Peace Review*, 15, 279-285.

Hunt, P. S., & **Morasch, K. C.** (2004). Modality-specific impairments in orienting response habituation following neonatal binge ethanol exposure. *Neurotoxicology and Teratology*, 26, 451-459.

Hunt, P. S., & **Phillips, J. S.** (2004). Postnatal binge ethanol exposure affects habituation of the cardiac orienting response to an olfactory stimulus in preweanling rats. *Alcoholism: Clinical and Experimental Research*, 28, 123-130.

Hunt, P. S., & **Hallmark, R. A.** (2001). Increases in ethanol ingestion by young rats following interaction with intoxicated siblings: A review. *Integrative Physiological and Behavioral Science*, 36, 239-248.

*Hunt, P. S., Holloway, J. L., & **Scordalakes, E. M.** (2001). Social interaction with an intoxicated sibling can result in a preference for ethanol in periadolescent rats. *Developmental Psychobiology*, 38, 101-109.

*Hunt, P. S., Lant, G. M., **Carroll, C. M.** (2000). Enhanced intake of ethanol by preweanling rats following interactions with intoxicated siblings. *Developmental Psychobiology*, 37, 90-99.

Kondrad, R. L., & Burk, J. A. (2004). Transient disruption of attentional performance following escalating amphetamine administration in rats. *Psychopharmacology*, 175, 436-442.

Newman, L. A., & Burk, J.A. (2005). Effects of excitotoxic thalamic intralaminar nuclei lesions on attention and working memory. *Behavioural Brain Research*, 162, 264-271.

Lori Newman's work served as her honors thesis. We developed the hypotheses and experiment together. Lori conducted most of the data analysis and tissue processing independently and learned animal surgery as the experiment progressed. Her thesis served as a template for the publication. She is now a graduate student at the University of New Hampshire in behavioral neuroscience.

Nichols, M. P. and **Fellenberg, S.** (2000). The effective use of enactments in family therapy: a discovery-oriented process study. *Journal of Marital and Family Therapy*, 26, 143-152.

Ottalah, N., & Langholtz, H. (2002). The Psychological Consequences of Conflict: The Role of Socioeconomic Factors in Leading to Psychological Illness in Refugees and Torture Survivors. *Journal for the study of Peace and Conflict*, 20-35.

Shean, G., **Abel, E.,** & **DeSalvo** (2003). Interpersonal aspects of the syndromes of schizophrenia. *Psychopathology*, 36, 13-16.

*Shean, G. D., **Burnett, T.,** & Eckmann F. S. (2002). Symptoms of schizophrenia and neurocognitive test performance. *Journal of Clinical Psychology*, 58, 723-731.

Shean, G., & **Wais, A.** (2000). Interpersonal behavior and schizotypy. *Journal of Nervous and Mental Disease*, 188, 842-846.

Simonson, B., & Shean, G. (2001). The effects of suggestions on ratings of attention Deficit hyperactivity disorder. *Psychology*, 42-47.

Several outstanding and dedicated undergraduate students working with me have expressed strong interests in and commitments to clinical research and practice. Eva Abel, Travis Burnett, Carla DeSalvo, Christina Derbyshire, and Brandi Simonson are recent examples of a long list of William and Mary psychology students with the maturity and perseverance to dedicate two or more years to volunteer work and clinical research at agencies such as Eastern State Hospital and community aftercare programs for the long-term mentally ill. Eva, Carla and Travis each collected data at Eastern State Hospital for over two years and co-authored journal research articles with me before continuing on in graduate work. Brandi Simonson was interested in the topic of ADHD and designed a study and collected data in pre-schools that led to a publication. Suzanne Overstreet and Ashley Glover have provided invaluable clinical research assistance in designing and collecting data for a study of the effects of cognitive rehabilitation programs for long-term patients at Eastern State Hospital. Other students such as Katie Powers, Misha Roane and Lisa Trivits have conducted longitudinal research on the effects of local Head Start programs on the cognitive development of pre-school children. These clinical research opportunities provide invaluable experience and background for our students as well as important opportunities for public service.

Wagner, A. F., & Hunt, P. S. (in press). Impaired trace fear conditioning following neonatal ethanol: Reversal by choline. *Behavioral Neuroscience*.

This publication was the result of Alison Wagner's Psychology honors project. This was a very large-scale experiment that was designed to (a) determine whether alcohol-exposed animals (a model of fetal-alcohol spectrum disorders) would exhibit selective impairments in hippocampal-dependent trace conditioning and (b) whether supplementation with extra dietary choline would ameliorate these learning deficits. Alison was partially responsible for developing the hypotheses and designing the experiment. She supervised three other undergraduate students who helped her with the treatment of the animals, collected all of the data herself, and assisted with data analysis. Finally, she was primarily responsible for the written manuscript. In all respects, this was truly Alison's work and she is deserving of this first-author paper in one of the top journals in the field.

Watson, N., & **Watts, R. H., Jr.** (2001). The predictive strength of personal constructs versus conventional constructs: Self-Image disparity and neuroticism. *Journal of Personality*, 69, 121-145.

Weiss, P. A., Watson, N., & Mcguire, H. (2003). Smoking and self-concept in young adults: An idiographic method of measurement. *Journal of Constructivist Psychology*, 16, 323-334.

This was an undergraduate honors thesis. The student collected, managed, and analyzed the data, as well as writing sections of the manuscript for publication.

Yttri, E. A., Burk, J. A., & Hunt P. S. (2004). Intermittent ethanol exposure in adolescent rats: dose-dependent impairment in trace conditioning. *Alcoholism: Clinical and Experimental Research*, 28, 1433-1436.

Recent Conference Presentations with W&M Undergraduate Psychology Students

Undergraduate students denoted in bold

* Includes both undergraduate and graduate co-authors

- ***Aiken, J. R.**, Johnson, R. T., & Burk, J. A. (2005). Effects of gonadectomy and androgen supplementation on attention in male rats. William & Mary Undergraduate Neuroscience Symposium.
- Ashby, A. N.**, & Watson, N. (2004). Negative affect and self-discrepancy in college women with bulimic tendencies. Paper presented at the meeting of the Eastern Psychological Association.
- Barnet, R. C., **Fields, N. R.**, & **Smigel, E.** (2006). Temporal Specificity of the US Preexposure Effect Produced by Excitatory Status of Local Context. Paper to be presented at the annual meeting of the Eastern Psychological Association.
- Colona, K. A.**, & Hunt, P. S. (2001). Temporal determinants of alcohol-induced deficits in response habituation. Paper presented at meetings of the International Society for Developmental Psychobiology.
- Colona, K. A.**, & Hunt, P. S. (2002). Binge ethanol exposure during the brain growth spurt causes persistent deficits in response habituation in pre- and post-weanling rats. Paper presented at meetings of the International Society for Developmental Psychobiology.
- Colona, K. A.**, **Miranda, D. O.**, **Islam, S. N.**, & Hunt, P. S. (2002). The persistence of response habituation deficits following PD4-9 binge ethanol exposure. Paper presented at meetings of the Research Society on Alcoholism/International Society of Biomedical Research on Alcoholism.
- Crane, A.**, & Watson, N. (2001). Personal constructs: Effects of dyad and triad construct elicitation procedures on bipolarity and importance. Paper presented at the meeting of the Eastern Psychological Association.
- Dow, L. A.**, **Harrington, M. D.**, **Palmer, K. A.**, **Henwood, K.**, & Burk, J. A. (2004). NMDA receptor antagonists impair attention in rats. William & Mary Undergraduate Neuroscience Symposium.
- Duda, J. L.**, & Hunt, P. S. (2003). Endogenous opioids and the social transmission of diet preference in adolescent rats: The effects of opioid antagonist naloxone on ethanol intake. Paper presented at meetings of the Society of Young Neuroscientists and Professors in the South East (SYNAPSE).
- Fields, N.**, & Barnet, R. C. (2005). Unconditioned Stimulus Preexposure and Timing Specificity: Does Temporal Learning Take Place? Poster presented at the Annual Neuroscience Symposium, The College of William and Mary.

Mr. Fields played a leading role in the development of his research in our laboratory which led to his conference and manuscript coauthorships. As a recipient of the Howard Hughes Medical Institute Summer Fellowship during Summer 2006, Mr. Fields piloted and developed the research which has further evolved into his senior Honors Thesis.

- Fields, N., Smigel, E., & Barnet R. C.** (2006). “ynamic variation in contextual fear modulates the US Preexposure effect. Poster presented at the Annual Undergraduate Research Science Symposium, The College of William and Mary.
- Groff, M. D., & Nezlek, J. B.** (2001). Introducing a measure of cognitive overload. Eastern Psychological Association Meeting.
- Hallmark, R. A., & Hunt, P. S.** (2001). Opioid mediated expression of alcohol preferences in preweanling rats. Paper presented at meetings of the Research Society on Alcoholism.
- Haworth, L., & Barnet, R. C.** (2005). Time as an attribute versus time as integral to associative learning in the rat. Paper presented at the Annual Honors Student Symposium, The College of William and Mary.
- ***Howe, W. M., Harrington, M. D., & Burk, J. A.** (2005). Dizocilpine-induced attentional deficits are reversed by D-cycloserine in rats. Society for Neuroscience Conference.
- Hunt, P. S., Barnet, R. C., **Rima, B. N., & Murdoch, D. A.** (2004). Temporal encoding in trace conditioning: Evidence using the fear-potentiated startle paradigm. Paper presented at the annual meeting of the Society for Neuroscience.
- Hunt, P. S., **Baker, E. M., Shea, M. E., & Barnet, R. C.** (2005). Cholinergic modulation of trace conditioning trained in serial compound: A developmental analysis. Paper presented at the annual meeting of the Society for Neuroscience.
- Hunt, P. S., **Colona, K., Hruska, M., & Hillard, M.** (2001). Attention deficits arising from neonatal alcohol exposure: Evaluation of response habituation. Paper presented at meetings of the Research Society on Alcoholism.
- Hunt, P. S., & **Hallmark, R. A.** (2000). Early Pavlovian conditioning of alcohol cues: Basic processes underlying later alcohol ingestion. Paper presented at meetings of the Pavlovian Society of America.
- Hunt, P. S., & **Phillips, J. S.** (2000). A rodent model of fetal-alcohol-induced deficits in response habituation. Paper presented at meetings of the International Society for Developmental Psychobiology.
- Hunt, P. S., & **Phillips, J. S.** (2000). Deficits in cardiac orienting and habituation in animals exposed to ethanol on P4-9. Paper presented at meetings of the Fetal Alcohol Syndrome Study Group – Research Society on Alcoholism.
- Hunt, P. S., & **Schultz, S. A.** (2001). Neonatal treatment with an NMDA antagonist disrupts olfactory learning in preweanling rats. Paper presented at meetings of the Pavlovian Society of America.
- Hunt, P. S., **Schultz, S. A., & Kirk, E. A.** (2001). Neonatal treatment with an NMDA antagonist produces response-specific disruption in the expression of olfactory learning in preweanling rats. Paper presented at meetings of the International Society for Developmental Psychobiology.
- Hunt, P. S., **Shea, M. E., Baker, E. M., & Barnet, R. C.** (2005). Developmental and pharmacological analysis of trace and serial compound fear conditioning. Paper presented at the annual meeting of the International Society for Developmental Psychobiology.
- Hunt, P. S., & **Wagner, A. F.** (2005). Impaired trace fear conditioning following neonatal ethanol: Reversal by choline. Paper presented at the annual meeting of the Research Society on Alcoholism.

- *Johnson, R. T., **Cameron, A. P.**, & Burk, J. A. (2005). Effects of gonadectomy and androgen supplementation on attention in male rats. Society for Neuroscience Conference.
- *Johnson, R. T., **Yttri, E. A.**, **Mason, D. G.**, **Carron, C. M.**, **Dieckmann, R.**, Barnet, R.C., Hunt, P.S. & Burk, J.A. (2004). Effects of adolescent administration of alcohol and nicotine on trace and delay fear conditioning in rats. Paper presented at the annual meeting of the Society for Neuroscience.
- *Johnson, R. T., **Yttri, E.**, **Mason, D.**, **Carron, C.**, **Dieckmann, R.**, Barnet, R. C., Hunt, P. S., & Burk, J. A. (2004). Effects of adolescent administration of alcohol and nicotine on trace and delay fear conditioning in rats. William & Mary Undergraduate Neuroscience Symposium.
- Kondrad, R.**, & Burk, J. A. (2003). Effects of repeated amphetamine treatment on sustained attention performance in rats. Meeting of the Society for Young Neuroscientists and Professors in the Southeast.
- Kondrad, R. L.**, & Burk, J. A. (2004). Escalating amphetamine transiently increases false alarms in a sustained attention task in rats. Society for Neuroscience Conference.
- Kondrad, R. L.**, & Burk JA (2004). Escalating amphetamine transiently increases false alarms in a sustained attention task in rats. William & Mary Undergraduate Neuroscience Symposium.
- Kondrad, R. L.**, & Burk, J. A. (2005). Lesions of the prefrontal cortex, but not the thalamic mediodorsal nucleus, disrupt attentional performance in rats. Society for Neuroscience Conference.
- Kray, P. E.**, & Watson, N. (2004). *Drive for thinness in college women: The relation to negative affect and self-discrepancy*. Paper presented at the meeting of the Eastern Psychological Association.
- Little, J. A.**, & Ball, C. T. (2004). How are involuntary autobiographical memories retrieved? North Carolina Cognition Conference.
- McQuail, J.**, & Burk, J. A. (2003). Effects of cholinergic receptor antagonists on sustained attention performance in rats. Verizon William & Mary Undergraduate ScienceResearch Symposium.
- McQuail, J.**, & Burk, J. A. (2004). Effects of cholinergic receptor antagonists on sustained attention performance in the rat. Undergraduate Research Conference of the Colonial Academic Alliance.
- McQuail, J. A.**, & Burk, J. A. (2004). Effects of muscarinic and nicotinic receptor antagonists on sustained attention in rats. Society for Neuroscience Conference.
- McQuail, J.**, **Newman, L.**, Burk, J. A. (2003). Effects of introducing a retention interval in a measure of sustained attention in the rat. Meeting of the Society for Young Neuroscientists and Professors in the Southeast.
- Miranda, D. O.**, **Colona, K. A.**, & Hunt, P. S. (2003). Neonatal binge ethanol affects olfactory, but not auditory, memory. Paper presented at meetings of the Society of Young Neuroscientists and Professors in the South East (SYNAPSE).
- *Musisca, N. J., **Duda, J. L.**, & Hunt, P. S. (2003). Social exposure to ethanol following naloxone administration and its effects on ethanol intake in periadolescent rats. Paper presented at meetings of the International Society for Developmental Psychobiology.

- *Musisca, N. J., **Duda, J. L.**, & Hunt, P. S. (2004). Opioid regulation of social learning about ethanol in periadolescent rats. Paper presented at the annual meeting of the Society for Neuroscience.
- Newman, L.**, & Burk, J. A. (2003). The effects of thalamic intralaminar nuclei lesions on sustained attention. Verizon William & Mary Undergraduate Science Research Symposium.
- Newman, L. A.**, & Burk, J. A. (2004). Effects of thalamic intralaminar lesions on attention and working memory in rats. Meeting of the International Behavioral Neuroscience Society.
- Newman, L. A.**, & Burk, J. A. (2004). Effects of thalamic intralaminar nuclei lesions on attention and working memory in rats. Society for Neuroscience Conference.
- Rima, B. N.**, **Miranda, D. O.**, & Hunt, P. S. (2003). The trace conditioning deficit in juvenile rats: Is it the trace or the delay? Paper presented at meetings of the Society of Young Neuroscientists and Professors in the South East (SYNAPSE).
- Schultz, S.**, & Hunt, P. S. (2000). The role of the dentate gyrus in olfactory fear conditioning. Paper presented at the Verizon Undergraduate Science Research Symposium, College of William & Mary.
- Shean, G. D., & **Powers, K.** (2005). Evaluation of cognitive changes in Head Start children during the academic year. SEPA.
- Shean, G. D. & **Abel, E.** (2002). Interpersonal aspects of the three dimensional model of schizophrenic symptoms. A paper presented at the Annual Meeting of the Southeastern Psychological association.
- Shean, G. D., & **DiSalvo, C.** (2001). Language and the symptom dimensions of schizophrenia. A paper presented at the Annual Meeting of the Southern Society for Philosophy and Psychology.
- Shean, G. D., & **Burnett, T.** (2000). Impairments in Neuropsychological Test Performance and Syndromes of Schizophrenia. Southeastern Psychological Association.
- Shea, E. J.**, & Watson, N. (2002). Subclinical bulimia, negative affect, and self-discrepancy. Paper presented at the meeting of the Eastern Psychological Association.
- Smigel, E.**, & Barnet, R. C. (2005). Temporal Conditioning in Rats Measured by USV. Poster presented at the Annual Neuroscience Symposium, The College of William and Mary.
- Stephen, D. G.**, & Ball, C. T. (2005). What are the cognitive determinants of coincidences? North Carolina Cognition Conference.
- Werner, K.**, & Barnet R. C. (2006). Supporting the Temporal Nature of Encoding Associations Through Temporal Specificity and Conditioned Inhibition. Poster presented at the Annual Undergraduate Research Science Symposium, The College of William and Mary.
- Wyland, C.**, & Watson, N. (2002). Smoking behavior: Self-Concept and peer influence. Paper presented at the meeting of the Eastern Psychological Association.

List of Undergraduate Students Who Contributed to Faculty Research (2005-06 AY)

Note: This list includes volunteers, independent study students, and honor's students

Adkins, Elizabeth	Giedris, Nick	Nuccio, Audrey
Adkins, Taryn	Glover, Ashley	Nweke, Nwamaka
Aiken, Juliet	Gould, Declan	
Alford, Wendy	Goldschmidt, Laura	O'Reilly, Courtney
Aukward, Erin	Grossman, Lauren	Overstreet, Suzanne
Ayub, Sana		
	Handler, Jeff	Palmer, Kimberly
Baca, Sarah	Harrington, Matthew	Parker, Erica
Baker, Eric	Hartman, Evan	Patel, Ankit
Baltz, Julia	Haworth, Laura	Pendleton, Laura
Banks, Cecelia	Hodge, Amber	Powers, Katie
Banks, George	Hoffman, Elizabeth	
Bates, Scott	Horne, Kathryn	Rafajko, Andrew
Bludworth, Emily	Huie, Christina	Roberson Lindsay
Bothwell, Jamie	Hummel, Jasmin	Rowe, Amanda
Brady, Meghan	Hutchison, Mary Anne	
Brever, Amanda		Savino, Charlotte
Brunick, Kate	Jack, Allison	Saylor, Drew
Burgess, Mary	Jackson, Alisha	Scanelli, Maria
	Jefferson, Andy	Sharp, Marcia
Campbell, Joannalee	Jones, Richard	Shea, Meghan
Cameron, Allison	Jue, Heather	Smigel, Ezekiel
Carron, Christopher	Julstrom, Laura	Spealman, Alyson
Chang, Katie		Spector, Bethany
Chokshi, Vijah	Kepley, Melissa	Spencer, Elizabeth
Clark, Michelle	Kettye, Shawna	Stack, Maria
Coleman, Kara	Knewstep, Shelley	Stephen, Damian
Collins, Samantha	Kohn, Joseph	Sun, Chris
Crew, Page	Kondrad, Robyn	
	Kostelnik, Lauren	Taylor, James
Davis, Eboni		Thomas, Nicole
Davis, Kensey	Lau, Hui-Shing (Andy)	Thomas, Tanya
de Nesnera, Peter	Lee, Crystal	
Dieckmann, Robert	Lefevre, Anne	Vassar, Karen
Dow, Lindsay	Long, Kristin	
	Lucarini, Lauren	Wagner, Alison
Erbach, John	Lucas, Darren	Walker, Lindsay
Erwin, Alicia	Lutz, Amy	Werner, Kimberly
		Willing, Laura
Farmer, Heather	Manipula, Christopher	
Fields, Nathan	Mason, Daniel	Yazdgerdi, Sasha
Franklin, Robert	McClellan, Sarah	Young, Ashley
Fung, Lucy	Medina, Dorothy	Young, Lindsay
Galvano, Matthew	Nelson, Lauren	Zielinski, Mike
Garcia, Brittany	Novak, Jessica	

Recent Publications with W&M M.A. and Psy.D. Students

MA students denoted in bold

PsyD students denoted by underline

Brunell, A. B., Pilkington, C. J., & Webster, G. (in press). Perceptions of risk in intimacy in dating couples: conversation and relationship quality. *Journal of Social and Clinical Psychology*.

This was Amy Brunell's master's thesis, which Greg Webster (another M.A. student) helped us re-analyze. An undergraduate student, Philip Kray, helped Amy with data collection and went on to his honors thesis with Dr. Neill Watson.

Cunningham, W. A., Nezlek, J. B., & Banaji, M. R. (2004). Implicit and explicit ethnocentrism: Revisiting the ideologies of prejudice. *Personality and Social Psychology Bulletin*, 30, 1332-1346.

Gabel, S., & Shean, G. (2000). Perceived social competence and depression. *Journal of Social and Personal Relationships*, 1, 139-150.

Galano, J., Credle, W., Perry, D., Berg, S., Huntington, L. & Stief, E (2001). Developing and sustaining a successful community prevention initiative: The Hampton Healthy Families Partnership. *Journal of Primary Prevention*, 21, 495-509.

Elizabeth Stief (VCPCP class of '04) served as a research assistant and co-authored a journal article with Dr. Galano. Elizabeth's collaboration involved a year and a-half of meeting with community leaders and public officials, documenting an innovative prevention initiative and its impact, and summarizing the lessons learned for other communities. Elizabeth contributed significantly and learned about community development and the challenges of translating research into practice.

Gonzalez, R., & Langholtz, H. (2002). Minimizing Cost in resource-allocation decisions. *Organizational Behavior and Human Decision Processes*, 89, 1032-1057.

Hunt, P. S., **Holloway, J. L.**, & Scordalakes, E. M. (2001). Social interaction with an intoxicated sibling can result in a preference for ethanol in periadolescent rats. *Developmental Psychobiology*, 38, 101-109.

Hunt, P. S., **Lant, G. M.**, Carroll, C. M. (2000). Enhanced intake of ethanol by preweanling rats following interactions with intoxicated siblings. *Developmental Psychobiology*, 37, 90-99.

Johnson, R. T., & Burk, J. A. (in press). Effects of gonadectomy and androgen supplementation on attention in male rats. *Neurobiology of Learning and Memory*.

Langholtz, H., **Marty, A.**, Ball, C., **Nolan, E.**, (2002) *Resource-Allocation Behavior*. Kluwer Academic Press.

In our 2002 book, my two students, Antoinette Marty and Eric Nolan, played significant roles. Eric researched the topic of resource-allocation behavior when the slope of the objective function varies. Antoinette researched resource-allocation behavior in terms of equality, equity, and need, and she also worked extensively on the editing of the entire book.

- Nezlek, J. B., & **Allen, M. R.** (2006). Social support as a moderator of day-to-day relationships between daily negative events and daily psychological well-being. *European Journal of Personality*, 20, 53-68
- Nezlek, J. B., **Austin-Lane, J.**, & Null, C. H. (2001). Multidimensional scaling analyses of the perceived social structure of informal groups. *Group Dynamics: Theory, Research, and Practice*, 5, 200-207.
- Nezlek, J. B., Feist, G. J., **Wilson, F. C.**, & **Plesko, R. M.** (2001). Day-to-day variability in empathy as a function of daily events and mood. *Journal of Research in Personality*, 35, 401-423.
- Nezlek, J. B., & **Gable, S. L.** (2001). Depression as a moderator of relationships between positive daily events and day-to-day psychological adjustment. *Personality and Social Psychology Bulletin*, 27, 1692-1704.
- Nezlek, J. B., **Hampton, C. A.**, & Shean, G. D. (2000). Clinical depression and everyday social interaction in a community sample. *Journal of Abnormal Psychology*, 109, 11-19.
- Nezlek, J. B., & **Plesko, R. M.** (2001). Day-to-day relationships among self-concept clarity, self-esteem, daily events, and mood. *Personality and Social Psychology Bulletin*, 27, 201-211.
- Nezlek, J. B. & **Plesko, R. M.** (2003). Affect- and self-based models of relationships between daily events and daily well-being. *Personality and Social Psychology Bulletin*, 29, 584-596.
- Nezlek, J. B., Richardson, D. S., **Green, L. R.**, & Schatten-Jones, E. C. (2002). Psychological well-being and day-to-day social interaction among older adults. *Personal Relationships*, 9, 57-71.
- Nezlek, J. B., Schütz, A., Lopes, P., **Smith, C. V.** (in press). Naturally occurring variability in state empathy. In T. F. D. Farrow & P. W. R. Woodruff (Eds.) *Empathy in Mental Illness and Health*.
- Nezlek, J. B., & **Smith, C. V.** (2005). Social identity in daily social interaction. *Self and Identity*, 4, 243-261.
- Nezlek, J. B., & **Zebrowski, B. D.** (2001). Implications of the dimensionality of unrealistic optimism for the study of perceived health risks. *Journal of Social and Clinical Psychology*, 20, 520-536.
- Shean, G.D., Burnett, T. & **Eckmann F. S.** (2002). Symptoms of schizophrenia and neurocognitive test performance. *Journal of Clinical Psychology*, 58, 723-731.
- Shean, G., & **Gudelski, G.** (2000). Depressed and nondepressed students: Differences in interpersonal perceptions. *The Journal of Psychology*, 134, 56-62.
- Shean, G. & **Eckman, S.** (2000). Impairment in test performance and symptom dimensions of schizophrenia. *Journal of Psychiatric Research*, 34, 147-153.
- Woolfrey, K. M.**, Hunt, P. S., Burk, J. A. (2005). Postnatal ethanol exposure disrupts signal detection in adult rats. *Neurotoxicology and Teratology*, 27, 815-823.

Woolfrey, K. M., Musisca, N. J., Hunt, P. S., Burk, J. A. (2005). Early postnatal ethanol administration does not affect prepulse inhibition. *Physiology & Behavior*, 84, 747-752.

Recent Conference Presentations with W&M M.A. and Psy.D. Students

M.A. students denoted in bold

Psy.D. students denoted by underline

- Aiken, J. R., **Johnson, R. T.**, & Burk, J. A. (2005). Effects of gonadectomy and androgen supplementation on attention in male rats. William & Mary Undergraduate Neuroscience Symposium.
- Allen, M. R.**, & Nezelek, J. B. (2001). Social support as a moderator of relationships between self-esteem and daily events. Eastern Psychological Association Meeting.
- Babel, K., & Watson, N. (2001). Selecting outcome measures for research on client-centered therapy. In N. Watson (Chair), Client-Centered therapy and the person-centered approach: Current theory, practice, and research. Symposium conducted at the meeting of the Eastern Psychological Association.
- Babel, K., & Watson, N. (2002). Measuring self-discrepancy in outcome research on client-centered therapy. In N. Watson (Chair), Client-Centered therapy and the person-centered approach: Research and practice. Symposium conducted at the meeting of the Eastern Psychological Association.
- Babel, K. S., & Watson, N. (2005). Outcome measures for humanistic therapies: Psychometric properties of self-discrepancy measures. Poster presented at the meeting of the American Psychological Association.
- Babel, K. S., Watson, N., Craine, A. W. W., & Bryan, B. C. (2005). Test-retest reliabilities of three methods for measuring self-discrepancy: A replication. Poster presented at the meeting of the Society for Psychotherapy Research, Montreal, Canada.
- Burk, J. A., **Musisca, N. J.**, Barnet, R. C., & Hunt, P. S. (2005). Effects of acute alcohol administration on long delay and trace conditioning in adolescent and adult rats. Society for Neuroscience Conference.
- Burk, J. A., **Woolfrey, K. M.**, **Musisca, N. J.**, & Hunt, P. S. (2004). Early postnatal ethanol administration does not affect prepulse inhibition in rats. Society for Neuroscience Conference.
- Calogero, R. M.**, & Watson, N. (2001). Getting back to one's roots: A study of the self-discrepancies prevalent in the propensity to view the self as an object in the eyes of others. Paper presented at the meeting of the Eastern Psychological Association.
- Elek, J.**, & Langholtz, H. (2004). Defendant and Juror Demographics: The Influence of Similarities and Differences on Judgment. Society for Judgment and Decision Making, Minneapolis, Minnesota.
- Elliott, K. L., & Watson, N. (2005). The relation of self-discrepancy to anxiety and depression as psychotherapy change measures: Research in progress. Poster presented at the meeting of the Society for Psychotherapy Research.
- Howe, W. M.**, & Burk, J. A. (2005). The effects of D-cycloserine on MK-801-induced attentional deficits in rats. College of William & Mary Graduate Research Symposium.
- Howe, W. M.**, Harrington, M. D., & Burk, J. A. (2005). Dizocilpine-induced attentional deficits are reversed by D-cycloserine in rats. Society for Neuroscience Conference.

- Hunt, P. S., **Musisca, N. J.**, Barnet, R. C., & Burk, J. A. (2005). Effects of acute alcohol administration on long delay and trace conditioning in adolescent and adult rats. Paper presented at the annual meeting of the Society for Neuroscience.
- Hurst, S. M., Watson, N., & Gill, W. J. (2001). Disparity of spouses' perceptions and marital distress. Paper presented at the meeting of the Eastern Psychological Association.
- Johnson, R. T.**, & Burk, J. A. (2005). Androgen-cholinergic interactions: the effects of androgen deprivation and supplementation on attention in adult male rats. College of William & Mary Graduate Research Symposium.
- Johnson, R.**, Burk, J. A., & Kirkpatrick, L. (2004). Salivary testosterone and domain-specific self-esteem. College of William & Mary Graduate Research Symposium.
- Johnson, R. T.**, Cameron, A. P., & Burk, J. A. (2005). Effects of gonadectomy and androgen supplementation on attention in male rats. Society for Neuroscience Conference.
- Johnson, R. T.**, Yttri, E., Mason, D., Carron, C., Dieckmann, R., Barnet, R. C., Hunt, P. S., Burk, J. A. (2004). Effects of adolescent administration of alcohol and nicotine on trace and delay fear conditioning in rats. William & Mary Undergraduate Neuroscience Symposium.
- Johnson, R. T.**, Yttri, E. A., Mason, D. G., Carron, C. M., Dieckmann, R., Barnet, R. C., Hunt, P. S. & Burk, J. A. (2004). Effects of adolescent administration of alcohol and nicotine on trace and delay fear conditioning in rats. Paper presented at the annual meeting of the Society for Neuroscience.
- Koenig, B. L.**, & Nezlek, J. B. (2004). Evolutionary psychology of impression management: Mating strategies in everyday interactions. Human Behavior and Evolution Society Annual Meeting.
- Marty, A.**, Langholtz, H., & Sopchack, B. (2001). Resource Allocation Behavior: Equality, Equity, and Need. Society for Judgment and Decision Making.
- Morasch, K. C.**, & Hunt, P. S. (2004). Binge-like postnatal alcohol exposure induces alterations in response habituation: The duration and modality specificity of fetal alcohol effects. Paper presented at the XIV Biennial International Conference on Infant Studies.
- Musisca, N. J.**, Duda, J. L. & Hunt, P. S. (2004). Opioid regulation of social learning about ethanol in periadolescent rats. Paper presented at the annual meeting of the Society for Neuroscience.
- Nezlek, J., Kafetsios, K., & **Smith, V.** (2004). Cross and within culture relationships between day-to-day affect and self-construal. Conference of the International Society for Emotion Research.
- Nezlek, J. B., & **Smith, V.** (2005). Social identity in daily social interaction. European Association of Experimental Social Psychology.
- Paddock, E. L.**, **Smith, C. V.**, **Webster, G. D.**, & Nezlek, J. B. (2006). Relationships between personality and perceptions of sexual interactions. Poster to be presented at the 7th annual meeting of the Society for Personality and Social Psychology.
- Shean, G. D., & **Boutemy, G.** (2000). Alexithymia, Affect and Somatic symptoms. Southeastern Psychological Association.
- Shean, G. D., & **Boutemy, G.** (2001). Alexithymia, somatization and language. A paper

- presented at the Annual Meeting of the Southern Society for Philosophy and Psychology.
- Shean, G. D., & **DiSalvo, C.** (2001). Language and the symptom dimensions of schizophrenia. A paper presented at the Annual Meeting of the Southern Society for Philosophy and Psychology.
- Shean, G. D., & **Murphy, A.** (2004). Social cognition and symptom syndromes of schizophrenia. Paper presented at SEPA.
- Shean, G. D., & **Williams, K.** (2002). Symptom domains, common sense and insight into illness. A paper presented at the Annual Meeting of the Southeastern Psychological association.
- Shean, G. D., & **Wonch, W.** (2003). Tardive dyskinesia, tardive dysmentia and neuroleptic medication history. Paper presented at SEPA, New Orleans.
- Shean, G. D., & **Gabel, S.** (2000). Communication Skills and Symptoms of Depression. Southeastern Psychological association.
- Smith, C. V.,** & Nezek, J. B. (2002). Condom use and the experience of sexual interactions. International Network on Personal Relationships Conference.
- Smith, C. V.,** & Nezek, J. B. (2003). The Big-Five Personality dimensions and sexual interaction: A diary study. Poster presented at the 4th Annual Meeting of the Society for Personality and Social Psychology.
- Smith, C. V.,** & Nezek, J. B. (2003). The Big-Five Personality dimensions and sexual interaction: A diary study. Symposium talk presented at the 45th Annual Meeting of the Society for the Scientific Study of Sex.
- Smith, C. V.,** & Nezek, J. B. (2004). Social identity in daily social interaction. Society for Personality and Social Psychology Annual Meeting.
- Watson, N., **Hurst, S. M.,** & **Tyree, S. D.** (2003). Drive for thinness, self-discrepancy, and neuroticism in college women. Paper presented at the meeting of the Eastern Psychological Association.
- Webster, G. D.,** Kirkpatrick, L. A., & Nezek, J. B. (2006). Self-esteem and narcissism are differentially associated with intrapersonal aggression: Evidence from diary studies. Poster to be presented at the 7th annual meeting of the Society for Personality and Social Psychology.
- Webster, G. D.,** Kirkpatrick, L. A., Nezek, J. B., **Smith, C. V.,** & **Paddock, E. L.** (2004). Aggressive attitudes and behaviors as a function of self-esteem level and instability. Society for Personality and Social Psychology Annual Meeting.
- Woolfrey, K. M.,** Hunt, P. S., & Burk, J. A. (2003). Effects of postnatal alcohol administration on sustained attention performance in rats. Paper presented at meetings of the International Society for Developmental Psychobiology.
- Woolfrey, K. M.,** Hunt, P. S., & Burk, J. A. (2004). Postnatal alcohol administration disrupts sustained attention performance in rats. Paper presented at the annual meeting of the Society for Neuroscience.
- Woolfrey, K. M.,** Hunt, P. S., & Burk, J. A. (2004). Postnatal ethanol administration disrupts sustained attention performance in rats. Society for Neuroscience Conference.
- Woolfrey, K.,** & Burk, J. A. (2004). Effects of postnatal ethanol administration on sustained attention performance in rats. *College of William & Mary Graduate Research Symposium.*

Funding Sources Used to Support Undergraduate and Graduate Research

By alphabetical order of PI.

- Young Investigator Award, The National Alliance for Research on Schizophrenia & Depression, “Cortical acetylcholine and attention in a repeated amphetamine model of schizophrenia”; Project Dates: 2002-2004. J.A. Burk (PI).
- Jeffress Memorial Trust (Burk PI) “Posterior parietal cortical acetylcholine and attention”; Project Dates: 2005-2006. J.A. Burk (PI).
- Virginia Tobacco Settlement Fund, “Adolescent nicotine and alcohol administration and cognition” 2003-2004, 2004-2005, 2005-2006. J.A. Burk, R.C. Barnet & P.S. Hunt (PIs).
- RO1, National Institute on Alcohol Abuse and Alcoholism [NIAAA], “Neonatal ethanol-induced memory impairments in rats.” 2005-2010. P.S. Hunt (PI).
- RO1, National Institute on Alcohol Abuse and Alcoholism [NIAAA], “Social learning and alcohol intake in adolescent rats” 2000-2005. P.S. Hunt (PI).
- RO3, National Institute on Alcohol Abuse and Alcoholism [NIAAA], “Chronic postnatal alcohol and attention in the rat” 2000-2002. P.S. Hunt (PI).
- Howard Hughes Medical Institute Undergraduate Science Education and Research Program, renewal 2002-2006. (P.S. Hunt one of 12 PIs).
- Howard Hughes Medical Institute Undergraduate Science Education and Research Program 1998-2002. (P.S. Hunt one of 12 PIs).
- NICHD/NIH, R01, 7R01HD040827-05, *Reaching as a Yardstick for Infant Gestalt Perception*, \$849,375 total costs P.M. Vishton (PI).

Recent undergraduate summer grants:

Advisor in parentheses:

- MacKenzi Hillard - HHMI Freshman Research Scholar – Fall/Spring 2000 (P.S. Hunt)
- Stephanie Gabathuler - HHMI Freshman Research Scholar – Fall/Spring 2001 (P.S. Hunt)
- Tara Belfast - Cummings Scholarship – summer 2003 (P.S. Hunt)
- Robyn Kondrad – HHMI Summer Scholarship – summer 2003, 2004 (J.A. Burk)
- Joe McQuail – HHMI Summer Scholarship – summer 2003 (J.A. Burk)
- Alison Wagner - HHMI Summer Scholarship – summer 2003 (P.S. Hunt)
- Wendy Alford – HHMI Summer Scholarship – summer 2004 (R.C. Barnet)
- Lindsay Dow - HHMI Summer Scholarship – summer 2004 (J.A. Burk)
- Meghan Shea - HHMI Summer Scholarship – summer 2004 (P.S. Hunt)
- Lindsay Walker - Batten Pre-Honors Summer Scholarship – summer 2004 (P.S. Hunt)
- Page Crew - Chappel Summer Scholarship – summer 2005 (P.S. Hunt)
- Nathan Fields – HHMI Summer Scholarship – summer 2005 (R.C. Barnet)
- Ezekial Smigel – HHMI Summer Scholarship – summer 2005 (R.C. Barnet)
- Bethany Spector - HHMI Summer Scholarship – summer 2005 (P.S. Hunt)
- Kimberly Werner – Undergraduate Student Summer Research Scholarship awarded by the Charles Center – summer 2005 (R.C. Barnet)

Kathleen Altemose - HHMI Summer Scholarship – summer 2006 (J.A. Burk)
Rebecca Fogley - HHMI Summer Scholarship – summer 2006 (P.S. Hunt)
Elena Torok - HHMI Summer Scholarship – summer 2006 (P.S. Hunt)