

Gerald Hecht, Ph.D
North Kingstown, Rhode Island
drgeraldhecht@gmail.com

*Ph.D. In Psychobiology *Postdoc at University of Mississippi Medical Center *Psychology Professor

EDUCATION

Postdoctoral Fellowship, University of Mississippi Medical Center School of Medicine, Department of Psychiatry and Human Behavior, Division of Neurobiology and Behavior Research. Jackson, MS. Advisor, Dr. William Woolverton. *Investigated the relationship between binding affinities of dopaminergic agents at the Dopamine Reuptake Transporter (DAT), presynaptic autoreceptors, and postsynaptic dopamine receptor subtypes and concomitant, real time effects of those agents on Behavior, in both rat, and Rhesus Monkey animal models.* .

Ph.D. Developmental Behavioral Pharmacology; Psychobiology, State University of New York at Binghamton (Binghamton University), Binghamton, New York. Advisor, Dr. Linda P. Spear. *Effects of Reproductive Cycle and Prenatal Cocaine Exposure on Progressive Ratio Responding for Intravenous Cocaine.* (**Winner:** Outstanding Ph.D. Dissertation in Mathematics and Science.) 1997.

M.A. Experimental Psychology, West Chester University, West Chester, PA. Advisor, Dr. Louis Porter. *Influences of Amiloride Hydrochloride on Taste Detection Performance: A Signal Detection Analysis.* (4.0 GPA) 1990. **Detail:** Conducted parallel research requiring mastery of Single-Cell Electrophysiological Recording and Stimulation from the Nucleus of the Solitary Tract (NTS) in the Brainstem of Awake, Behaving Rats in Real Time with concomitant Behavioral Assessments of Reactivity to Taste Stimuli Presented in fluids which were Actively Licked and Swallowed by Experimental Animals

B.A. Psychology, Rowan University, Glassboro, NJ. Advisor, Dr. Gary Brosvic. *The Role of Copper and Vitamin B-6 in Taste Sensitivity in the Rat: A Signal Detection Analysis.* (**Winner:** Clyde Davis Award for Outstanding Undergraduate Research.) 1987.

PROFESSIONAL AND RESEARCH EXPERIENCE

Adjunct Professor

Baton Rouge Community College - Baton Rouge, LA

August 2020 to Present

Teaching Undergraduate Classes and Seminars in Psychology

Adjunct Professor

The Chicago School of Professional Psychology - New Orleans, LA

May 2018 to May 2019

Teaching Graduate Classes and Seminars in Clinical Psychopharmacology

Associate Professor of Psychology, Southern University Baton Rouge, Department of Psychology. Baton Rouge, LA.

Developed and proposed the curriculum for courses in Physiological Psychology for acceptance into Louisiana Substance Abuse Certification, recommend changes to faculty assignments to core undergraduate Psychology courses so that all tenure-track faculty taught at least one APA required core course to maintain Accreditation. Specialist in charge of Departmental Computer laboratory, separate

faculty and student Local Area Networks (LAN Segments). Served as IT Contact Liason between Department and Campus IT Department. Student Advisement. Teaching courses in Physiological Psychology, Sensation & Perception, Psychopharmacology, Developmental Psychology, Advanced Statistics, and History & Systems in Psychology . 2007-Present.

Assistant Professor of Psychology, Southern University Baton Rouge, Department of Psychology. Baton Rouge, LA.

Teaching undergraduate students. Student Advisement. Building the first Internet connected, networked student computer Laboratory in the Psychology Department. 1998-2007

Adjunct Professor, Louisiana State University. Baton Rouge, LA. Teaching undergraduate courses in Introduction to Psychology, History & Systems in Psychology, Drugs and Behavior, Learning Theories in Psychology. 1998 – Present.

Postdoctoral Fellowship / Research Coordinator. University of Mississippi Medical Center School of Medicine, Department of Psychiatry and Human Behavior, Division of Neurobiology and Behavior Research. Jackson, MS. Advisor, Dr. William Woolverton. Coordinated in-vivo and in-vitro studies of the behavioral effects of dopaminergic agents on behavior with an emphasis on reinforcing effects of various dopaminergic agents. Supervised laboratory technicians, undergraduate, graduate, and medical students. Sample Publication: Woolverton, W.L., Hecht, G.S., Katz, J.L., Newman, A.H. *Further studies of the reinforcing effects of benztrapine analogs in rhesus monkeys. Psychopharmacology (Berl)*. 2001 Apr;154(4):375-382. 2001.

Statistical Software Tutor, Southern University Baton Rouge, Department of Psychology and Computer Lab. Baton Rouge, LA. 1998-2007.

SOFTWARE

Statistical Packages- SPSS, SAS, Matlab, Redcap, Statistica, Brainwaves and STATA. **Operating Systems for Windows and Mac**- Windows XP through Windows 11, Mac OSX, IOS4-7.12. **Software and Applications**- Microsoft Office, PowerPoint, Microsoft Outlook, MS Word, MS Excel, MS Paint, MS Windows Media Player Adobe PDF. **Networking, Software Development and IT Engineering**- Operating Systems : Solaris, BSD, OS/2, numerous Linux Distributions (Red Hat Certification), “R” statistical Programming Language, C Programming Language, multiple NOS integration via SAMBA/LDAP/DNS coding, PERL and PHP scripting, Java coding, Apache Web Server Administration.

M ETHODOLOGIES

Receptor Binding Assays, Single-cell recording/stimulation, microiontophoresis, intravenous drug self administration, drug-state discrimination, Conditioned Place Preference, Conditioned, Taste Aversion, Operant Psychophysics, Smoking Topography Analysis in Human Subjects, Stereotaxic Neurosurgery in rodents and primates, Vascular microsurgery in rodents and primates, basic histology of brain tissue, HPLC, GC and associated imaging software

TEACHING/COURSES TAUGHT

Introduction to Psychology, Physiological Psychology, History & Systems in Psychology, Information Technology in the teaching of Psychology and Psychological research (Seminar), Substance Abuse

and Human Behavior, Sensation and Perception, Advanced Statistics, Learning Theories in Psychology.

SELECT PUBLICATIONS/BOOK CHAPTERS

Copeland AL, Kulesza M, Hecht GS. Pre-quit depression level and smoking expectancies for mood management predict the nature of smoking withdrawal symptoms in college women smokers. Addict Behav. 2009 May;34(5):481-3. Epub 2008 Dec 24.

Woolverton, W.L., Hecht, G.S., Katz, J.L., Newman, A.H. (2001). Further studies of the reinforcing effects of benztropine analogs in rhesus monkeys. Psychopharmacology, (Berl). 2001 Apr;154(4):375-82.

Hecht, G.S., Spear, N.E., and Spear, L.P. (1999). Changes in progressive ratio responding for intravenous cocaine throughout the reproductive process in female rats. Dev Psychobiol, Sep;35(2):136-45.

Hecht, G.S., Spear, N.E, and Spear, L.P. (1998). Alterations in the reinforcing efficacy of cocaine in adult rats following prenatal exposure to cocaine. Behavioral Neuroscience, 112(2) 1-9.

Hecht, G.S., Riccio, L., Spear, L.P. and Spear, N.E. (1996). Intravenous self-administration of cocaine in pregnant and lactating rats. Developmental Psychobiology, 29(3):36.

Nadel, L. et al. Hippocampus. (1995). In E. Alleva et al. (eds.), Behavioural Brain Research in Naturalistic and Semi-Naturalistic settings, pp 353-355. Kluwer Academic Publishers. Netherlands.

Porter, L.H., Hecht, G.S. and Sheaffer, R. (1993). Disturbances in the performance of thermal discrimination tasks following cortical ablations in rats. Brain Research, 621, 319-330.

DiLorenzo, P.M. and Hecht, G.S. (1993a). Perceptual consequences of electrical stimulation in the gustatory system. Behavioral Neuroscience, 107(1), 130-138.

Hecht, G.S., Brosvic, G.M. and Porter, L.H. (1993b). Influences of amiloride hydrochloride on the taste detection performance.

Brosvic, G.M., Hecht, G.S. and La Haye, S. (1992). Quality-specific differences in rat taste detection performance as a function of stimulus volume. Physiology and Behavior, 50, 711-718.

Hecht, G.S. (1990). Influences of amiloride hydrochloride on taste detection performance: a signal detection analysis. Masters Thesis, West Chester University, Dr. Louis Porter Committee Chair.

Brosvic, G.M. and Hecht, G.S. (1989). The role of copper and vitamin B-6 in taste sensitivity in the rat: A signal detection analysis. Physiology and Behavior, 45, 1139-1145.

CONFERENCE PRESENTATIONS

2006a: Copeland, A.L., Hecht, G.S., & Perantie, D.C. (August 2006). The relationship between cigarette smoking, depression, and suicidal ideation among college students. Paper submitted for presentation at the annual meeting of the American Psychological Association. New Orleans, Louisiana.

2006b: Hecht, G.S., Copeland, A.L., Kendzor, D.E., & Finley, A. (June, 2006). Monthly patterns of smoking topography and smoking rate among college women smokers: A pilot study. Paper submitted for presentation at the annual meeting of the College on Problems of Drug Dependence & Scottsdale, Arizona.

2006c: Copeland, A.L., Hecht, G.S., & Laurent, N.L. (June 2006). Smoking outcome expectancies predict nicotine withdrawal symptoms in mildly and moderately depressed college women smokers Paper submitted for presentation at the annual meeting of the College on Problems of Drug Dependence. Scottsdale, Arizona.

2000: Harrison, M. Hecht, G., & Carreiro, P. Predictors of substance use in African American youths. Paper presented at Southeastern Psychological Association 46th Annual Meeting, New Orleans, LA, 2000.

1998: Hecht, G.S. Intravenous cocaine self-administration in rats as a model of maternal drug abuse and prenatal drug exposure. ISGIDAR annual meeting, satellite conference at the sixtieth annual meeting of the College on Problems of Drug Dependence, Scottsdale, Arizona.

1996a: Snyder, K.J., Hecht, G.S., and Spear, L.P. The effects of maternal separation on basal heart rates and habituation in preweanling rat pups. Society for Neuroscience annual meeting, Washington, D.C.

1996b: Di Lorenzo, P.M., Hecht, G.S. Temporal coding of sensory stimuli: mimicking gustatory stimuli with electrical stimulation of the brain. Dynamical Neuroscience Satellite Symposium Washington, D.C.

1995a: Hecht, G.S., Spear, L.P., and Spear, N.E. Effects of prenatal cocaine exposure on reward sensitivity in the rat. Society for Neuroscience 25th annual meeting, San Diego, California.

1995b: Hecht, G.S., Riccio, L., Spear, L.P. And Spear, N.E. Intravenous self-administration of cocaine in pregnant and lactating rats. International Society for Developmental Psychobiology. San Diego, California.

1994: Hecht, G.S., Athalie, F., Spear, N.E., and Spear, L.P. Effects of prenatal cocaine exposure and maternal deprivation on heart rate and nonassociative learning in infant rats. Society for Neuroscience, Miami Beach Florida.

1993: Hecht, G.S., Di Lorenzo, P.M. Generalization of a conditioned aversion to electrical stimulation in the nucleus of the solitary tract in the rat. AChems, Sarasota, Florida.

1993: Hecht, G.S., Di Lorenzo, P.M. And Monroe, S. Time course of discrimination of taste stimuli in the parabrachial pons of the rat. Society for Neuroscience, Washington, D.C.

1992a: Di Lorenzo, P.M. And Hecht, G.S. Conditioned aversion to lick-paired stimulation of the nucleus of the solitary tract in the rat. AChems, Sarasota, Florida.

1992b: Di Lorenzo, P.M., Hecht, G.S. And Monroe, S. Taste responses to perithreshold stimuli in the parabrachial pons of the rat. Society for Neuroscience, New Orleans, Louisiana.

1989: Hecht, G.S. And Brosvic, G.M. Procedure Specific effects of amiloride hydrochloride on taste detection performance. Psychonomic Society, Atlanta, Georgia.

1987: Hecht, G.S. And Brosvic, G.M. Effects of copper deprivation on taste sensitivity. Eastern Psychological Association, Boston, Massachusetts.

HONORS AND AWARDS

- **Psi Chi (American Psychological Association Honor Society) Vice President, 1989.**
- **Clyde Davis Award for outstanding undergraduate research project, 1989.**
- **Graduated West Chester University (M.A. In Experimental Psychology) with 4.0 GPA, 1990.**
- **Graduate Student Organization Senator (Psychology Department Representative); Binghamton University, 1992.**
- **Selected as one of 8 American Scientists for participation in 1994 NATO-ASI meeting; Behavioral Brain Research in Naturalistic and Seminaturlistic Settings: Possibilities and**

Perspectives, Acquafredda di Maratea, Italy. NSF travel award for same (ASI Travel Award Program Grant [National Science Foundation], 1994, ASI #930511, \$1000).

- **Binghamton University Distinguished Doctoral Dissertation Award Recipient, 1997. Outstanding dissertation in Science and Mathematics.**
- **International Society for Developmental Psychobiology nominee for Outstanding Doctoral Dissertation Award, 1997.**
- **New York Academy of Sciences James McKeen Cattell Award for best doctoral dissertation in Psychology/Neuroscience, 1998.**
- **College on Problems of Drug Dependence Travel Award Winner, 1998.**
- **Nominated for and Invited into International Study Group Investigating Drugs as Reinforcers (ISGIDAR), 1998.**

REFERENCES

Dr. Norman E. Spear, Professor Emeritus Distinguished Professor of Psychology
Director, Center for Development and Behavioral Neuroscience Binghamton University
Phone: 607-777-2663
E-mail: nspear@binghamton.edu

Dr. Lora A. Becker, Neuroscience Program Director Associate Professor of Psychology and Neuroscience
University of Evansville, Department of Psychology
Phone: 812-488-2532
Email: lb47@evansville.edu