CURRICULUM VITAE

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EDUCATION

Degree:	Doctor of Philosophy in Neuroscience (2006-2013)
Institution:	Georgia State University, Atlanta, GA
Advisors:	Aras Petrulis (primary advisor), Elliott Albers (co-advisor)
Degree:	Master of Science in Neuroscience (2006-2011)
Institution:	Georgia State University, Atlanta, GA
Advisors:	Aras Petrulis (primary advisor), Elliott Albers (co-advisor)
Degree:	Bachelor of Science in Psychology (1998-2000; 2004-2006)
Institution:	University at Buffalo, Buffalo, NY
Advisor:	Scott Wersinger

PROFESSIONAL POSITIONS

Position:	Assistant Professor, Neuroscience Program (2016-present)
Institution:	Trinity College, Hartford CT
Position:	Postdoctoral Fellow, Department of Neuroscience (2013-2016)
Institution:	University of Minnesota, Minneapolis, MN
Advisor:	Paul Mermelstein

GRANTS, FELLOWSHIPS, AWARDS, AND HONORS

Junior Faculty Research Fellowship, Trinity College, 2016

NIDA Diversity Scholar Travel Award, Society for Neuroscience Annual Meeting, Chicago, IL, 2015

- SPINES Travel Award (Declined due to scheduling conflict), SPINES Symposium, Chicago, IL, 2015
- NIDA Institutional Training Grant Fellowship (T32), University of Minnesota, 2015-present NIDA Diversity Supplement Fellowship, University of Minnesota, 2013-2014

GSU Dissertation Grant. Georgia State University 2012-2013

GSU Dissertation Grant, Georgia State University, 2012-2

Honeycutt Fellow, Georgia State University, 2011-2013

Center for Neuromics Student Research Award, Georgia State University, 2011

Travel Award, Society for Behavioral Neuroendocrinology Annual Meeting, Groningen, Netherlands, 2008

Brains & Behavior Program Fellow, Georgia State University, 2008-2013

Center for Behavioral Neuroscience Scholar, Georgia State University, 2006-2013

APA Diversity Program in Neuroscience Predoctoral Fellowship, Georgia State University, 2006-2008

Summer Program in Neuroscience, Ethics, and Survival Fellow, Marine Biological Laboratories, 2006

Feldman-Cohen Award for Distinguished Honors Achievement, University at Buffalo, 2006 Undergraduate Research and Scholarship Award of Distinction, University at Buffalo, 2006 Psychology Honors Program, University at Buffalo, 2005-2006 McNair Scholar, University at Buffalo, 2005-2006 McNair Summer Research Scholarship, University at Buffalo, 2005 Dean's List, University at Buffalo, 1998, 2004-2006 University Honors Scholar, University at Buffalo, 1998-2000 Minority Academic Achievement Program Scholar, University at Buffalo, 1998-2000

PUBLICATIONS

- Arqoub, A.M.S.*, Flynn, K.G.*, & Martinez, L.A. Gestational exposure to a ketogenic diet increases sociability in CD-1 mice. *Manuscript accepted for publication by Behavioral Neuroscience on March* 3rd, 2020.
- 2. **Martinez, L.A.,** Lees, M.E.*, Ruskin, D.N., & Masino, S.A. A ketogenic diet diminishes behavioral responses to cocaine in young adult male and female rats. *Neuropharmacology* (2019), 149: 27-34.
- Martinez, L.A., Gross, K.S., Himmler, B.T., Emmitt, N.L., Peterson, B.M., Gross, K.S., Zlebnik, N.E., Olive, M.F., Carroll, M.E., Meisel, R.L., & Mermelstein, P.G. Estradiol facilitation of cocaine self-administration in female rats requires activation of mGluR5. *eNeuro* (2016), 3(5): ENEURO.0140-16.2016.
- 4. Gross, K.S., Bradner, D.N., **Martinez, L.A.**, Olive, M.F., Meisel, R.L., & Mermelstein, P.G. Opposite effects of mGluR1a and mGluR5 activation on nucleus accumbens medium spiny neuron dendritic spine density. *PLoS ONE* (2016), 11(9): 1-12.
- 5. Peterson, B.M., **Martinez, L.A.**, Meisel, R.L., & Mermelstein, P.G. Estradiol impacts the endocannabinoid system to influence behavioral and structural responses to cocaine in female rats. *Neuropharmacology* (2016), 110(A): 118-124.
- Martinez, L.A., Peterson, B.M., Meisel, R.L., & Mermelstein, P.G. Estradiol facilitation of cocaine-induced locomotor sensitization in female rats requires activation of mGluR5. *Behavioural Brain Research* (2014), 271: 39-42.
- 7. Shahbazi, M., Jiminez, P., **Martinez, L.A.**, & Carruth, L.L. Effects of housing condition and early corticosterone treatment on learned features of song in adult male zebra finches. *Hormones and Behavior* (2014), 65(3): 226-237.
- 8. **Martinez, L.A.**, Levy, M.J., & Petrulis, A. Endogenous oxytocin is necessary for preferential Fos expression to male odors in the bed nucleus of the stria terminalis in female Syrian hamsters. *Hormones and Behavior* (2013), 64(4): 653-664.
- 9. **Martinez, L.A.** & Petrulis, A. The medial preoptic area is necessary for sexual odor preference, but not sexual solicitation, in female Syrian hamsters. *Hormones and Behavior* (2013), 63(4): 606-614.
- 10. **Martinez, L.A.** & Petrulis, A. The bed nucleus of the stria terminalis is critical for sexual solicitation, but not for opposite-sex odor preference, in female Syrian hamsters. *Hormones and Behavior* (2011), 60(5): 651-659.

- 11. **Martinez, L.A.,** Albers, H.E., & Petrulis, A. Blocking oxytocin receptors inhibits vaginal marking to male odors in female Syrian hamsters. *Physiology and Behavior* (2010), 101(5): 685-692.
- Young, W.S., Wersinger, S.R., Caldwell, H.K., Martinez, L.A., Gold, P., & Hu, S.B. Vasopressin 1a receptor knockout mice have a subtle olfactory deficit but normal aggression. *Genes, Brain and Behavior* (2007), 6(6): 540-551.

PRESENTATIONS AND TALKS

- 1. Huston, M. M.*, Tzianabos, N. L.*, & **Martinez, L. A.** (February, 2020). *The Effects of a Ketogenic Diet on Conditioned Place Preference for Cocaine in Young Adult Sprague-Dawley Rats.* Poster presented at the N.E.U.R.O.N. conference in Quinnipiac, CT, USA.
- Huston, M.*, Flynn, K.*, & Martinez, L. (October, 2019). Exposure to a Ketogenic Diet Decreases the Rewarding Effects of Cocaine in Male and Female Sprague-Dawley Rats. Poster presented at the Faculty for Undergraduate Neuroscience Social held at the Society for Neuroscience Annual Meeting, Chicago, IL, USA.
- 3. Flynn, K.G.*, Arqoub, A.M.S.*, & **Martinez, L.A.** (October, 2019). *Gestational exposure to a ketogenic diet improves sociability and affect in CD-1 mice.* Poster presented at the Society for Neuroscience Annual Meeting, Chicago, IL, USA.
- 4. Flynn, K.G.*, Arqoub, A.M.S.*, Armentano, J.R.*, & **Martinez, L.A.** (February, 2019). *Gestational exposure to a ketogenic diet improves sociability and affect in CD-1 mice.* Poster presented at the N.E.U.R.O.N. conference in Quinnipiac, CT, USA.
- 5. **Martinez, L.A.,** Lees, M.E.*, Ruskin, D.N., & Masino, S.A. (November, 2018). *A ketogenic diet decreases behavioral responses to cocaine in male and female rats*. Poster presented at the Society for Neuroscience Annual Meeting, San Diego, CA, USA.
- Arqoub, A.M.S.*, Flynn, K.G.*, Arementano, J.R.*, and Martinez, L.A. (November, 2018). Gestational exposure to a ketogenic diet increases sociability & decreases depressive-like behavior in CD-1 mice. Poster presented at the Faculty for Undergraduate Neuroscience Social held at the Society for Neuroscience Annual Meeting, San Diego, CA, USA.
- 7. **Martinez, L.A.** (April, 2018). *Hormonal and Metabolic Regulation of Addiction*. Invited talk given at the Neuroscience Lecture Series, Trinity College, Hartford, CT.
- 8. Lees, M.E.*, Ruskin, D.N., Masino, M.A., & **Martinez, L.A.** (July, 2017). *Effects of the ketogenic diet on behavioral responses to cocaine in rats.* Poster presented at the University of Connecticut Annual Retreat, Hartford, CT.
- 9. **Martinez, L.A.,** Peterson, B.M., & Mermelstein, P.G. (November, 2015). *Estradiol facilitation of extended access cocaine self-administration in female rats requires activation of mGluR5.* Poster presented at the Society for Neuroscience Annual Meeting, Chicago, IL, USA.
- 10. Peterson, B.M., **Martinez, L.A.**, Leishman, E., Meisel, R.L., & Mermelstein, P.G. (November, 2015). *In female rat nucleus accumbens, the endocannabinoid system mediates the effects*

of estradiol on psychostimulant responses and structural plasticity. Poster presented at the Society for Neuroscience Annual Meeting, Chicago, IL, USA.

- 11. **Martinez, L.A.**, Peterson, B.M., Meisel, R.L., & Mermelstein, P.G. (November, 2014). *Estradiol facilitation of cocaine-induced behaviors in female rats requires activation of mGluR5.* Poster presented at the Society for Neuroscience Annual Meeting, Washington, DC, USA.
- 12. **Martinez, L.A.**, Peterson, B.M., Meisel, R.L., & Mermelstein, P.G. (August, 2014). *Estradiol facilitation of cocaine-induced locomotor sensitization in female rats requires activation of mGluR5*. Poster presented at the International Congress of Neuroendocrinology Meeting, Sydney, NSW, Australia.
- Martinez, L.A., Peterson, B.M., Meisel, R.L., & Mermelstein, P.G. (April, 2014). Estradiol facilitation of cocaine-induced locomotor sensitization in female rats requires activation of mGluR5. Poster presented at the Organization for the Study of Sex Differences Meeting, Minneapolis, MN, USA.
- Martinez, L.A. & Petrulis, A. (June, 2013). Endogenous oxytocin preferentially facilitates male odor-induced cFos expression in the bed nucleus of the stria terminalis in female Syrian hamsters. Poster presented at the Society for Behavioral Neuroendocrinology 17th Annual Meeting, Atlanta, GA, USA.
- 15. **Martinez, L.A.** (April, 2013). *Neural regulation of sexual solicitation in female Syrian hamsters: Role of oxytocin*. Invited talk given at the Brains and Behavior Annual Retreat, Georgia State University, Atlanta, GA, USA.
- 16. **Martinez, L.A.** & Petrulis, A. (October, 2012). *Ventral forebrain responses to sexual odors in female Syrian hamsters: Interactions with the central oxytocin system.* Poster presented at the Society for Neuroscience Annual Meeting, New Orleans, LA, USA.
- 17. Petrulis, A., Helman, A.*, Tabbaa, M.*, & **Martinez**, L. (October, 2012). *Blocking GABA receptors in the bed nucleus of the stria terminalis disrupts sexual odor preference in male Syrian hamsters.* Poster presented at the Society for Neuroscience Annual Meeting, New Orleans, LA, USA.
- 18. **Martinez, L.A.** & Petrulis, A. (November, 2011). *The role of the medial preoptic area in vaginal marking and opposite-sex odor preference in female Syrian hamsters.* Poster presented at the Society for Neuroscience Annual Meeting, Washington, DC, USA.
- 19. **Martinez, L.A.** & Petrulis, A. (November, 2010). *The role of the posterior bed nucleus of the stria terminalis in vaginal marking and sexual odor preference in female Syrian hamsters.* Poster presented at the Society for Neuroscience Annual Meeting, San Diego, CA, USA.
- 20. **Martinez, L.A.** (May, 2010). *Neural regulation of mate solicitation in female Syrian hamsters: Role of oxytocin in the ventral forebrain.* Powerpoint presentation at the Neuroscience Institute Breakfast & Lecture Series, Georgia State University, Atlanta, GA, USA.
- 21. **Martinez, L.A.** & Petrulis, A. (June, 2009). *Progesterone inhibits vaginal marking in ovariectomized, estradiol benzoate-primed female Syrian hamsters.* Poster presentation at

the 13th annual meeting of the Society for Behavioral Neuroendocrinology, East Lansing, MI, USA.

- 22. **Martinez, L.A.,** Petrulis, A., & Albers, E. (November, 2008). *Endogenous oxytocin in the medial preoptic-anterior hypothalamus facilitates vaginal marking and opposite-sex odor preference in female Syrian hamsters.* Poster presentation at the Society for Neuroscience annual meeting, Washington, DC, USA.
- 23. Martinez, L.A., Petrulis, A., & Albers, E. (July, 2008). Oxytocin in the medial preoptic/anterior hypothalamus regulates vaginal marking in female Syrian hamsters. Poster presentation at the 12th annual meeting of the Society for Behavioral Neuroendocrinology, Groningen, the Netherlands.

*denotes undergraduate student author

INSTRUCTION

NESC 388-01: Current Issues in Neuroscience. Fall 2018 Data Analysis Workshop (Instructor), Summer 2018 NESC 364-01: Neuropsychopharmacology (Instructor), Fall 2017 NESC 210-01: Neuroendocrinology (Instructor), Spring 2017, 2018, 2019 NESC 210-20: Neuroendocrinology Lab (Instructor), Spring 2017, 2018, 2019 NESC 201-01: Principles of Neuroscience (Instructor), Spring 2017, 2018, 2019 NESC 301-01: Introduction to Neuroscience Methods (Instructor), Fall 2016, 2017, 2018 NESC 325-01: Hormones and Social Behavior (Instructor), Fall 2016, 2018 NSCI 1002: Social Neuroscience – Understanding Others (Instructor), Spring 2016 NSCI 4151: Social Neuroscience – Understanding Others (Instructor), Spring 2015 Life Sciences Undergraduate Research Program (Neuroscience Seminar Coordinator), Summer 2014 PSYC 8420: Psychology Research Statistics II (Graduate Teaching Assistant), Spring 2012 PSYC 3530: Advanced Research Design and Analysis (Laboratory Instructor), Fall 2011 PSYC 3530: Advanced Research Design and Analysis (Laboratory Instructor), Spring 2011 PSYC 3530: Advanced Research Design and Analysis (Laboratory Instructor), Spring 2010 PSYC 8410: Psychology Research Statistics I (Graduate Teaching Assistant), Fall 2009 PSYC 8420: Psychology Research Statistics II (Graduate Teaching Assistant), Spring 2009

PSY 351: Biopsychology (Undergraduate Teaching Assistant), Spring 2006

MENTORING

Faculty mentor to one Chemistry Department undergraduate research assistant, 2019-present Faculty mentor to one Neuroscience Program thesis student, 2019-present Faculty mentor to two Neuroscience Program undergraduate research assistants, 2019-present Faculty mentor to Interdisciplinary Science Program student, 2018-present Faculty mentor to three Neuroscience Program undergraduate research assistants, 2018-2019 Faculty mentor to one Neuroscience Program thesis student, 2017-2019 Faculty mentor to one Biology Department undergraduate research assistant, 2017 Faculty mentor to two Neuroscience Program undergraduate research assistants, 2017-2018 Faculty mentor to two Neuroscience Program undergraduate research assistants, 2017-2018 Faculty mentor to two Neuroscience Program thesis students, 2016-2018 Postdoctoral mentor to one University of Minnesota College of Veterinary Medicine Summer Scholar, 2016 Postdoctoral mentor to one Undergraduate Research Opportunity Program (UROP) Scholar, 2015-2016 Postdoctoral mentor to one UROP Scholar, 2013-2016 Postdoctoral mentor to one UROP Scholar, 2015 Postdoctoral mentor to one McNair Scholar, 2014 Graduate student mentor to one McNair Scholar, 2012-2013 Graduate student mentor to two undergraduate research volunteers, 2012-2013 Graduate student mentor to two University Honors Scholars, 2011-2013 Graduate student mentor to one undergraduate research volunteer, 2011-2012 Graduate student mentor to one undergraduate research volunteer, 2010-2011 Graduate student mentor to one undergraduate research volunteer, 2007-2009 Graduate student mentor to two University Honors Scholars, 2007-2009

SERVICE

Trinity College

Faculty Research Committee, 2019 Mellon Foundation Inclusive Teaching Grant Advisory Board, 2018-2019 Institutional Animal Care and Use Committee, 2016-2019 Crescent Street Neuroscience Committee, 2016-2019

Department of Neuroscience, University of Minnesota

Local Organizing Committee, Organization for the Study of Sex Differences 2014 Meeting, April, 2014

College of Arts and Sciences, Georgia State University

Student Representative, GSU Life Sciences External Review Board Team Luncheon, August 28, 2012

Neuroscience Institute, Georgia State University

Student Representative, Executive Committee, 2011-2012 Co-Organizer, Neuroscience Institute Breakfast & Lecture Series, 2010-2011

Department of Psychology, Georgia State University

Student Representative, PSYC 3530 Redesign Committee, 2011-2012 Student Coordinator, Graduate Student Recruitment Weekend, 2009 Program Representative, Graduate Association of Student Psychologists, 2007-2008

Center for Behavioral Neuroscience, Atlanta, GA

Georgia State University Representative, CBN Graduate Student Association, 2008-2009 Volunteer, Annual Neuroscience Exposition, 2007-2009

PROFESSIONAL ORGANIZATIONS (CURRENT/PAST)

Society for Neuroscience Society for Behavioral Neuroendocrinology Organization for the Study of Sex Differences Faculty for Undergraduate Neuroscience