

Curriculum Vitae

Nicholas Martin Grebe
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EDUCATION

PhD Psychology (Evolution and Development), University of New Mexico, 2016
 MS Psychology (Evolution and Development), University of New Mexico, 2015
 BA Psychology and Neuroscience, University of Colorado—Boulder, 2009

PROFESSIONAL APPOINTMENTS

2017-2021 Postdoctoral Researcher, Department of Evolutionary Anthropology, Duke University
 2015-2016 Instructor, Department of Psychology, University of New Mexico
 2009-2011 Professional Research Assistant, Institute for Behavioral Genetics, University of Colorado—Boulder

PUBLICATIONS

In Press **Grebe, N.M.**, Emery Thompson, M., & Gangestad, S.W. Oxidative Stress and the Differential Expression of Traits Associated with Mating Effort in Humans. *Evolution and Human Behavior*.

2021 **Grebe, N.M.**, Sharma, A.*, Freeman, S.M., Palumbo, M.C., Bales, K.L., Patisaul, H.B., & Drea, C.M. Neural Correlates of Mating System Diversity: Oxytocin and Vasopressin Receptor Distributions in Monogamous and Non-Monogamous *Eulemur*. *Scientific Reports*, 11, 3746. [*Undergraduate trainee co-author]

2021 Marcinkowska, U.M., Mijas, M., Kozłara, K., **Grebe, N.M.**, & Jasienska, G. Variation in Sociosexuality Across Natural Menstrual cycles: Associations with Ovarian Hormones and Cycle Phase. *Evolution and Human Behavior*, 42(1), 35-42.

2020 Bornbusch, S.L., **Grebe, N.M.**, Lunn, S.*, Southworth, C.*, Dimac-Stohl, K., & Drea, C.M. Stable and Transient Structural Variation in Lemur Vaginal, Labial, and Axillary Microbiomes Across the Ovarian Cycle: Patterns by Species, Body Site, Hormone Concentration, and Habitat Use. *FEMS Microbiology Ecology*, 96(6), faa090. [*Undergraduate trainee co-author]

- 2019 ManyPrimates*, Altschul, D., Beran, M.J., Bohn, M., Caspar, K., Fichtel, C., Försterling, M., **Grebe, N.M.**, Hernandez-Aguilar, R.A., Kwok, S.C., Llorente, M., Motes-Rodrigo, A., Proctor, D., Sánchez-Amaro, A., Simpson, E.A., Szabelska, A., Taylor, D., van der Mescht, J., Völter, C.J., & Watzek, J. Collaborative Open Science As a Way to Reproducibility and New Insights in Primate Cognition Research. *Japanese Psychological Review*, 62(3), 205-220. [*Project members who contributed to the paper are listed alphabetically]
- 2019 Gangestad, S.W., Dinh, T., **Grebe, N.M.**, Del Giudice, M., & Emery Thompson, M. Hormone-Associated Psychological Cycle Shifts Redux, Once Again: Response to Stern et al., Roney, Jones et al., and Higham. *Evolution and Human Behavior*, 40(6), 537-542.
- 2019 Gangestad, S.W., Dinh, T., **Grebe, N.M.**, Del Giudice, M., & Emery Thompson, M. Hormone-Associated Psychological Cycle Shifts Redux: Revisiting a Preregistered Study Examining Preferences for Muscularity. *Evolution and Human Behavior*, 40(6), 501-516.
- 2019 **Grebe, N.M.**, Fitzpatrick, C.L., Sharrock, K., Starling A., & Drea, C.M. Organizational and Activational Androgens, Lemur Social Play, and the Ontogeny of Female Dominance. *Hormones and Behavior*, 115, 104554.
- 2019 **Grebe, N.M.**, Del Giudice, M., Emery Thompson, M., Nickels, N., Ponzi, D., Zilioli, S., Maestripieri, D., & Gangestad, S.W. Testosterone, Cortisol, and Status-Striving Personality Features: A Review and Empirical Evaluation of the Dual Hormone Hypothesis. *Hormones and Behavior*, 109, 25-37.
- 2019 **Grebe, N.M.** & Gangestad, S.W. Oxytocin: An Evolutionary Framework. In L.M. Welling & T.K. Shackelford (Eds.), *The Oxford Handbook on Evolutionary Psychology and Behavioral Endocrinology*. Oxford, UK: Oxford University Press.
- 2019 **Grebe, N.M.**, Sarafin, R., Strenth, C.R., & Zilioli, S. Pair Bonding, Fatherhood, and the Role of Testosterone: A Meta-Analytic Review. *Neuroscience and Biobehavioral Reviews*, 91, 221-233.
- 2018 **Grebe, N.M.** & Gangestad, S.W. Social Endocrinology in Evolutionary Perspective: Function and Phylogeny. In O.C. Schultheiss & P.H. Mehta (Eds.), *The International Handbook of Social Neuroendocrinology*. New York, NY: Taylor & Francis Group.
- 2018 Dimac-Stohl, K.*, Davies, C.S.*, **Grebe, N.M.***, Stonehill, A., Greene, L.K., Mitchell, J., Clutton-Brock, T., & Drea, C.M. Incidence and Biomarkers of Pregnancy, Spontaneous Abortion, and Neonatal Loss during an Environmental Stressor: Implications for Female Reproductive Suppression in the Cooperatively Breeding Meerkat. *Physiology and Behavior*, 193, 90-100. [*co-first authors]
- 2018 **Grebe, N.M.** & Drea, C.M. Human Sexuality. In T.K. Shackelford & V.A. Weekes-Shackelford (Eds.), *Encyclopedia of Evolutionary Psychological Science*. New York, NY: Springer Publishing.

- 2017 **Grebe, N.M.**, Falcon, R.G., & Gangestad, S.W. *p*-Curve and Selection Methods as Meta-Analytic Supplements for Biologists: A Demonstration of Effect Size Estimation in Studies of Human Fluctuating Asymmetry. *Symmetry*, 9(7), 98.
- 2017 **Grebe, N.M.**, Kristoffersen, A.A., Grøntvedt, T.V., Emery Thompson, M., Kennair, L.E.O., & Gangestad, S.W. Oxytocin and Vulnerable Romantic Relationships. *Hormones and Behavior*, 90, 64-74.
- 2017 Gangestad, S.W. & **Grebe, N.M.** Hormonal Systems, Human Social Bonding, and Affiliation. *Hormones and Behavior*, 91, 122-135.
- 2017 Grøntvedt, T.V., **Grebe, N.M.**, Kennair, L.E.O., & Gangestad, S.W. Estrogenic and Progestogenic Effects of Hormonal Contraceptives in Relation to Sexual Behavior: Insights into Extended Sexuality. *Evolution and Human Behavior*, 38(3), 283-292.
- 2016 **Grebe, N.M.**, Emery Thompson, M., & Gangestad, S.W. Hormonal Predictors of Women's Extra-Pair vs. In-Pair Sexual Attraction in Natural Cycles: Implications for Extended Sexuality. *Hormones and Behavior*, 78, 211-219.
- 2015 Gangestad, S.W., & **Grebe, N.M.** Mating Systems. In M. P. Muehlenbein (Ed.), *Basics in Human Evolution* (pp. 467-478). Waltham, MA: Academic Press.
- 2015 Gangestad, S.W., & **Grebe, N.M.** Are Within-Cycle Variations in Women's Sexual Interests Mere By-Products? A Comment on Havlíček et al. *Behavioral Ecology*, 26(5), 1262-1263.
- 2014 Gangestad, S.W., & **Grebe, N.M.** Pathogen Avoidance within An Integrated Immune System: Multiple Components with Distinct Costs and Benefits. *Evolutionary Behavioral Sciences*, 8(4), 226-234.
- 2014 Mitchem, D.G., Purkey, A.M., **Grebe, N.M.**, Carey, G., Garver-Apgar, C.E., Bates, T.C., Arden, R., Hewitt, J.K., Medland, S.E., Martin, N.G., Zietsch, B.P., & Keller, M.C. Estimating the Sex-Specific Effects of Genes on Facial Attractiveness and Sexual Dimorphism. *Behavior Genetics*, 44(3), 270-281.
- 2013 **Grebe, N.M.**, Gangestad, S.W., Garver-Apgar, C.E., & Thornhill, R. Women's Luteal-phase Sexual Proceptivity and the Functions of Extended Sexuality. *Psychological Science*, 24(10), 2106-2110.

PREPRINTS AND MANUSCRIPTS UNDER REVIEW

- Preprint Bornbusch S.L., Harris R.L., **Grebe N.M.**, Roche K., Dimac-Stohl K., & Drea C.M. Characterizing influences of antibiotic treatment and fecal transfaunation on bacterial gut microbiota in ring-tailed lemurs (*Lemur catta*). *bioRxiv* doi: <https://doi.org/10.1101/2020.11.11.378349>

Submitted	Gangestad, S.W., Grebe, N.M. , Gildersleeve, K., & Haselton, M.G. Are Ovulatory Shifts in Women's Mate Preferences Robust? Selection Models Say It Depends. Manuscript invited for revision.
In Prep	Grebe N.M. , Bornbusch S.L., Greenwald, L., Dimac-Stohl K., & Drea C.M. Hormonal Contraception and its Consequences for Complex, Condition-Dependent Signals in Two Species of Lemurs. Manuscript in preparation.

FUNDED GRANTS

Extramural

2020	"Physiological mechanisms of lemur life history trade-offs." Co-PI with Elaine Guevara, Christine Drea, & Virginia Kraus. Triangle Center for Evolutionary Medicine Seed Grant (\$8,759)
2018-2021	" <i>Eulemur</i> as a Primate Model for Oxytocin System Evolution and Function." National Science Foundation SBE Postdoctoral Research Fellowship (SBE-1808803; \$165,000)
2013-2015	"Oxytocin, social bonding, and life-history strategies among Norwegians." National Science Foundation Graduate Research Opportunities Worldwide (\$17,100)
2012-2015	"Romantic Relationships and Oxidative Stress: A Mediating Role for Oxytocin." National Science Foundation Graduate Research Fellowship Program (DGE-1418062; \$128,500)

Intramural

2021	"Sex differences in steroid concentrations in the blue-eyed black lemur: Implications for aggressive maintenance of female dominance." PI, Director's Fund, Duke Lemur Center (\$6,435)
2020	"Mechanisms underlying variation in primate physiological reserve." Co-PI with Elaine Guevara & Christine Drea. Duke Center for Aging and Human Development Pepper Pilot Award (\$40,000)
2019	"Lemur Molecular Maintenance and Life History." Co-PI with Elaine Guevara & Christine Drea. Director's Fund, Duke Lemur Center (\$4,070)
2018	" <i>Eulemur</i> as a Primate Model for Oxytocin System Evolution and Function." Duke Institute for Brain Sciences Germinator Award (\$25,000)
2017-2018	"The oxytocin system in <i>Eulemur</i> : insights into mating systems and social behavior." Director's Fund, Duke Lemur Center (\$10,000)
2017-2018	"The oxytocin system in <i>Eulemur</i> : insights into the evolution of human mating bonds." Josiah Charles Trent Memorial Foundation Endowment Fund, Duke University (\$3500)
2017	"The oxytocin system in <i>Eulemur</i> : insights into the evolution of human mating bonds." Arts & Sciences Council Committee on Faculty Research, Duke University (\$5000)
2016	"Oxytocin, social bonding, and life-history strategies among Norwegians." Benjamin Franklin Haught Memorial Scholarship, University of New Mexico (\$3000)

AWARDS AND HONORS

- 2020 *Nonapeptide receptor neuroanatomy in monogamous and promiscuous Eulemur*. Travel Award, Society for Behavioral Neuroendocrinology (\$500)
- 2017-2018 Fellow, Preparing Future Faculty Program, Duke University
- 2017 New Investigator Award, Human Behavior and Evolution Society
- 2016 *Oxytocin, social bonding, and life-history strategies among Norwegians*. American Psychological Association Dissertation Research Award (\$1000)
- 2016 *Oxidative Stress and Facultative Adjustment of Energy Allocation*. Travel Award, International Society for Evolution, Medicine, & Public Health (\$750)
- 2015 *Women's Extended Sexuality: Non-conceptive Sex in an Evolutionary Framework*. Travel Award, Society for Personality and Social Psychology (\$500)
- 2010 Phi Beta Kappa, University of Colorado—Boulder

TEACHING EXPERIENCE

Duke University, Instructor of Record

Sociobiology and Behavioral Ecology (summer 2020)

University of New Mexico, Instructor of Record

Psychological Research Techniques (fall 2015, spring 2016)

University of New Mexico, Teaching Assistant

General Psychology (fall 2011, spring 2012)

SCIENTIFIC OUTREACH

Triangle Center for Evolutionary Medicine

Darwin Day Roadshow (2020 – 2021)

Duke Lemur Center

Wild Workshops (2019 – Present), DLC Summer Camps (2019 – Present), “Exploring by the Seat of Your Pants” workshops (2020 – 2021), Mission Madagascar Gala (2019)

Duke University Postdoctoral Association

“Postdocumentaries” program (2017 – 2019)

North Carolina Museum of Natural Sciences

Brain Awareness Night (2018)

National Center for Science Education

“Scientist in the Classroom” program (2016 – 2017)

INVITED TALKS

- 2019 **Grebe, N.M.** (August). Evolutionary Considerations for the Therapeutic Use of Oxytocin: Implications from Life-History Theory. International Society for Evolution, Medicine, & Public Health, Zurich, CH.
- 2019 **Grebe, N.M.** (May). *Eulemur* as a Primate Model for Oxytocin System Evolution and Function. California National Primate Research Center, University of California—Davis.
- 2018 **Grebe, N.M.** (December). Social Endocrinology in Primates: Selected Work from Humans and Malagasy Lemurs. Department of Biological Sciences, North Carolina State University.
- 2018 **Grebe, N.M.** (March). The Role of Oxytocin in Primate Mating Systems. Brain Awareness Night, North Carolina Museum of Natural Sciences.
- 2017 **Grebe, N.M.** (September). Reconceiving the “Love Hormone”: Human Evolutionary Biology and the Oxytocin System. Department of Biology, University of North Carolina—Chapel Hill.

CONFERENCE PRESENTATIONS AND POSTERS

Papers

- 2020 Sharma, A.*, **Grebe, N.M.**, Freeman, S.M., Bales, K.L., Patisaul, H.B., & Drea, C.M. (August). Comparative Oxytocin and Vasopressin Neurocircuitry in Relation to Mating System in *Eulemur*. Animal Behavior Society Annual Meeting, Knoxville, TN. [Virtual] [*Undergraduate trainee co-author]
- 2020 Bornbusch, S.L., **Grebe, N.M.**, Lunn, S., Southworth, C., Dimac-Stohl, K., Drea, C.M. (April). The microbiomes of female lemurs vary structurally by species, body site, and ovarian hormone cycles. American Association of Physical Anthropologists, Los Angeles, CA. [Conference cancelled]
- 2020 **Grebe, N.M.**, Sharma, A.*, Freeman, S.M., Bales, K.L., & Drea, C.M. (April). Nonapeptide receptor neuroanatomy in monogamous and promiscuous *Eulemur*. American Association of Physical Anthropologists, Los Angeles, CA. [Conference cancelled] [*Undergraduate trainee co-author]
- 2019 **Grebe, N.M.**, Kristoffersen, A.A., Grøntvedt, T.V., Emery Thompson, M., Kennair, L.E.O., & Gangestad, S.W. (June). Sociality and the adaptive design of the oxytocin system. Human Behavior and Evolution Society, Boston, MA.
- 2018 **Grebe, N.M.**, Emery Thompson, M., & Gangestad, S.W. (July). Oxidative Stress and Facultative Adjustment of Energy Allocation. Human Behavior and Evolution Society, Amsterdam, NL.

- 2018 **Grebe, N.M.**, & Drea, C.M. (April). Ontogeny of Female Dominance in Ring-Tailed Lemurs: Behavioral and Hormonal Evidence. American Association of Physical Anthropologists, Austin, TX.
- 2017 **Grebe, N.M.**, Kristoffersen, A.A., Grøntvedt, T.V., Emery Thompson, M., Kennair, L.E.O., & Gangestad, S.W. (June). Oxytocin and Vulnerable Romantic Relationships. Human Behavior and Evolution Society, Boise, ID.
- 2016 **Grebe, N.M.**, Gangestad, S.W., & Emery Thompson, M. (June). Men's Testosterone and Oxytocin Levels in Response to Romantic Partner's Hormone Levels and Relationship Features. Human Behavior and Evolution Society, Vancouver, CA.
- 2016 Strenth, C.R., Sarafin, R.E., **Grebe, N.M.** (June). Pair-bonding, Fatherhood, and the Role of Testosterone: A Meta-analytic Review. Human Behavior and Evolution Society, Vancouver, CA.
- 2016 **Grebe, N.M.**, Emery Thompson, M., & Gangestad, S.W. (June). Oxidative Stress and Facultative Adjustment of Energy Allocation. International Society for Evolution Medicine, and Public Health, Durham, NC.
- 2016 **Grebe, N.M.**, Emery Thompson, M., & Gangestad, S.W. (January). Oxytocin and Romantic Relationships: The "Identify and Invest" Hypothesis. Society for Personality and Social Psychology, San Diego, CA.
- 2015 Gangestad, S.W., **Grebe, N.M.**, & Emery Thompson, M. (May). Men's Oxytocin and Testosterone Responses to Thinking about Their Romantic Relationships: Associations with Own and Partner Relationship Involvement. Human Behavior and Evolution Society, Columbia, MO.
- 2015 **Grebe, N.M.**, Grøntvedt, T.V., Kennair, L.E.O., & Gangestad, S.W. (May). Effects of Progesterone and Estradiol Concentrations in Hormonal Contraception on Sexual Behavior: Insights into Extended Sexuality. Human Behavior and Evolution Society, Columbia, MO.
- 2015 Haselton, M.G., Gangestad, S.W., Gildersleeve, K., & **Grebe, N.M.** (May). Are Ovulation Cycle Shifts in Humans Robust? Evidence from P-Curves. Human Behavior and Evolution Society, Columbia, MO.
- 2015 **Grebe, N.M.** (April). Evolutionary Psychology and Feminism: A Rapprochement. UNM Shared Knowledge Conference, Albuquerque, NM.
- 2015 **Grebe, N.M.**, & Gangestad, S.W. (February). Women's Extended Sexuality: Non-conceptive Sex in an Evolutionary Framework. Society for Personality and Social Psychology, Long Beach, CA.

- 2014 **Grebe, N.M.**, Emery Thompson, M., & Gangestad, S.W. (August). Changes in Women's Oxytocin Levels as a Function of Thinking about a Romantic Partner: I Lust Him, He Lusts Me Not. Human Behavior and Evolution Society, Natal, Brazil.
- 2013 **Grebe, N.M.**, Eaton, M.A., & Gangestad, S.W. (July). On the Modulatory Effects of Cortisol on Associations of Testosterone with Male Attractiveness, Dominance, Masculinity, and Health. Human Behavior and Evolution Society, Miami, FL.
- 2013 Mitchem, D.G., Purkey, A.M., **Grebe, N.M.**, Carey, G., Garver-Apgar, C.E., Bates, T.C., Arden, R., Hewitt, J.K., Medland, S.E., Martin, N.G., Zietsch, B.P., & Keller, M.C. (June). Estimating the sex-specific effects of genes on facial attractiveness and sexual dimorphism. Behavior Genetics Association, Marseille, France.
- 2012 **Grebe, N.M.**, Gangestad, S.W., Garver-Apgar, C.E., & Thornhill, R. (June). Women's Sexual Proceptivity During Luteal Phases: Evidence for Functions of Extended Sexuality. Human Behavior and Evolution Society, Albuquerque, NM.

Posters

- 2019 **Grebe, N.M.**, Fitzpatrick, C.L., Sharrock, K., Starling A., & Drea, C.M. (April). Organizational and Activational Androgens, Lemur Social Play, and the Ontogeny of Female Dominance. Insights from Long-Term research: From Individuals to Ecosystems, Duke University.
- 2018 Sharma, A., **Grebe, N.M.**, & Drea, C.M. (April). Investigation of the Oxytocin System in Monogamous and Promiscuous *Eulemur* using Receptor Autoradiography. Visible Thinking, Duke University.
- 2015 **Grebe, N.M.**, Emery Thompson, M., & Gangestad, S.W. (June). Oxytocin and Romantic Relationships: The "Identify and Invest" Hypothesis. International School of Ethology. Adapted Mind, Adapted Body: The Evolution of Human Behavior and its Neuroendocrine Regulation, Erice, Italy.

OTHER RESEARCH EXPERIENCE

- 2009-2011 Lead Research Assistant, Institute for Behavioral Genetics, University of Colorado—Boulder
- 2009 Research Assistant, Cognitive ERP Laboratory, University of Colorado—Boulder

PROFESSIONAL SERVICE

Grant Proposal Review

National Science Foundation (Division of Behavioral and Cognitive Sciences)

Journal Peer Review

American Journal of Primatology, Clinical Psychology Review, Ethology, Evolution and Human Behavior, General and Comparative Endocrinology, Hormones and Behavior, International Journal of Psychophysiology, Journal of

Research in Personality, Journal of Social and Personal Relationships, Psychological Science, Psychoneuroendocrinology, Psychophysiology, Stress

PROFESSIONAL AFFILIATIONS

Society for Behavioral Neuroendocrinology, Society for the Improvement of Psychological Science, American Association of Physical Anthropologists, International Society for Evolution, Medicine, and Public Health, Human Behavior and Evolution Society