

CURRICULUM VITAE

Gerianne M. Alexander, Ph.D.

CURRENT STATUS

Texas A&M University
 Professor and Director of Clinical Training
 Associate Vice President for Research
 Research Integrity Officer
 College of Liberal Arts
 College Station, TX 77843-4223
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RESEARCH INTERESTS

The development of human sex differences in social and cognitive behavior; Hormonal influences on typical and atypical behavior across the lifespan; Reproductive endocrinology and behavior

EDUCATION

McGill University, Montreal	Ph.D. Clinical Psychology	1991
St. Francis Xavier U., Nova Scotia	B.A. (<i>First Class Honors</i>)	1984
St. Francis Xavier U., Nova Scotia	B.A. Music (<i>First Class Honors</i>)	1981

PRIOR POSITIONS

Texas A&M University
 College of Liberal Arts
 Associate Dean of Research and Graduate Studies: 2014-2018
 Associate Dean of Research: 2012-2014

Texas A&M University
 Department of Psychology
 Assistant Professor of Psychology: 2002-2005
 Associate Professor of Psychology: 2005-2011

Yale University
 Child Study Center
 Postdoctoral Research Associate: 1999-2002

Yale School of Medicine
 Department of Anesthesiology
 Postdoctoral Research Associate: 1998-1999

University of New Orleans
 Department of Psychology
 Assistant Professor of Psychology: 1993-1998

(Resigned voluntarily to relocate with spouse)

University of California, Los Angeles
Laboratory of Neuroendocrinology
NRSA Postdoctoral Fellow: 1991-1993

Royal Victoria Hospital, Montreal
Behavioral Therapy Unit
Sex Therapist: 1989-1991

Douglas Hospital, Montreal
Adult Unit, Eating Disorders
Clinical Intern (Psychology): 1988-1989

Royal Victoria Hospital, Montreal
Allan Memorial Institute
Clinical Intern (Psychology): 1987-1988

FUNDING/AWARDS

External Grants and Fellowships Awarded

Sponsor: NSF SES-1658758
Project: Gender discrimination in hiring for STEM Graduates
Position: MPI Alexander, Hammond
Total Award: \$341,391
Dates: 2017-2020

Sponsor: Alfred P. Sloan Foundation
Project: Age/gender discrimination in hiring: Eye tracking during the resume review process
Position: Co-PI (33.3%) (PI: Lahey)
Total Award: \$116,000
Dates: 2012-2013

Sponsor: DARPA-BAA-11-36 (ENGAGE)/Total Immersion Software, Inc.
Project: An Adaptive Platform for K-3 STEM educational and Social Emotional Gaming Strategies
Position: Co-Investigator (15%) (PI: Linnehan)
Total Award: \$512,156
Dates: 2011-2012

Sponsor: NSF BCS-0618411
Project: Eye-tracking Studies of Gender Development
Position: PI
Total Award: \$481,000
Dates: 2006-2011

Sponsor: NIMH R21 (MH071414)
 Project: Biosocial Activation of Sex-linked Cognitive Behavior
 Position: PI
 Total Award: \$345,562
 Dates: 2004-2006

Sponsor: NIMH B-Start Grant (MH058381)
 Project: Individual differences in male sexual behavior
 Position: PI
 Total Award: \$80,000
 Dates: 1998-1999

Sponsor: NIH National Research Service Award (HD07596)
 Project: Hormone-behavior associations in hypogonadal and eugonadal men
 Position: PI

Sponsor: Fonds de la Recherche en Sante du Quebec Graduate Fellowship
Description: Funds supported the research and training of the PI under the direction of Dr. Barbara Sherwin of the Department of Psychology, McGill University

Sponsor: Natural Sciences and Engineering Research Council Graduate Fellowship
Description: Funds supported the research and training of the PI under the direction of Dr. Barbara Sherwin of the Department of Psychology, McGill University

Sponsor: Natural Sciences and Engineering Research Council Undergraduate Award
Description: Funds supported the research and training of the PI under the direction of Dr. Murray Schwartz of the Department of Psychology, St. Francis Xavier University

Internal (University) Research Grants Awarded

Sponsor: R3 Texas A&M Triads for Transformation (noncompetitive award)
 Project: Preferences for traits indicating fertility and resource acquisition in prepubertal children
 Position: PI (with Winking, ANTH, and Cunningham, CEHD)
 Total Award: \$32,000

Sponsor: College of Liberal Arts Seed Grant FY2020
 Project: Motor Dysfunction in Autism
 Position: PI (with Priscilla Jacob, Graduate Student)
 Total Award: \$9,302.80

Sponsor: R1 Texas A&M Triads for Transformation (noncompetitive award)
 Project: Chronotypes and gender-linked behavior
 Position: PI (with Alvard, ANTH and Menet, BIO)
 Total Award: \$35,000

Sponsor: PESCA 2015
 Project: Gender Discrimination in Hiring for STEM Graduates
 Position: Co-PI (with Dr. Joanna Lahey, BUSH)
 Total Award: \$18,000

Sponsor: College Faculty Research Enhancement Award
 Project: Affective modulation of human spatial abilities

Position: Principal Investigator
 Total Award: \$5,000

PUBLICATIONS

*Journal Articles (Google Scholar H-index 40; citations 5,980, * Graduate Students)*

- Hammond, T, Watson, K., Brumbelow, K. et al. (2020) A survey to measuring the effects of forced transition to 100% online learning on community sharing, feelings of social isolation, equity, resilience and learning. (Technology Report).
- Alexander, G. M., Allen, R. E., Bowen, W. P., Cetto, A. M. et al. (2020). The sounds of science – a symphony for many instruments and voices. *Physica Scripta in press*.
- Alexander, G. M. (2016). Sex differences in visual pathways: a comment on Handa and McGivern (2015). *Current Eye Research*, doi: 10.1080/02713683.2016.1217545
- Alexander, G. M., Hawkins LB, Wilcox T and Hirshkowitz A (2016). Infants Prefer Female Body Phenotypes; Infant Girls Prefer They Have an Hourglass Shape. *Frontiers in Psychology*, 7:804. doi: 10.3389/fpsyg.2016.00804
- Yaugher, A.* & Alexander, G. M. (2015). Internalizing and externalizing traits predict changes in sleep efficiency in emerging adulthood: An actigraphy study. *Frontiers in Psychology*, doi: 10.3389/fpsyg.2015.01495
- Saenz, J.*, Yaugher, A.*, & Alexander, G. M. (2015). Sleep in infancy predicts gender specific social-emotional problems in toddlers. *Frontiers in Pediatrics*, 3:42. doi: 10.3389/fped.2015.00042
- Alexander, G. M. (2014). Postnatal testosterone concentrations and male social development. *Frontiers in Endocrinology*, doi: 10.3389/fendo.2014.00015
- Charles, N. E*, Alexander, G. M., & Saenz, J.* (2013). Motivational value and salience of images of infants. *Evolution and Human Behavior*, 34, 373-381.
- Wilcox, T., Stubbs, J. A., Wheeler, L., & Alexander, G. M. (2013) Infants' scanning of dynamic faces during the first year. *Infant Behavior and Development*, 36, 513-516..
- Saenz, J.* & Alexander, G. M. (2013). Digit ratios (2D:4D), postnatal testosterone and eye contact in toddlers. *Biological Psychology*, 95, 106-108.
- Saenz, J.* & Alexander, G. M. (2013). Postnatal testosterone levels and disorder relevant behavior in the second year of life. *Biological Psychology*, 95, 152-159.
- Alexander, G. M. & Wilcox, T. (2012). Sex differences in early infancy. *Child Development Perspectives*, 4, 400-406.
- Alexander, G. M. & Saenz, J.* (2012). Early Androgens, activity levels, and toy choices of children in the second year of life. *Hormones and Behavior*, 62, 500-504.

- Wilcox, T., Alexander, G.M., Wheeler, L., & Norvell, J.M (2012). Sex differences during visual scanning of occlusion events. Developmental Psychology, 48, 1091-1105.
- Alexander, G. M. & Saenz, J.* (2011). Postnatal testosterone levels and temperament in early infancy, Archives of Sexual Behavior, 40, 1287-1292.
- McIntyre, M. H. & Alexander, G. M. (2011). Sex differences in the fingers of 3 to 5 month old infants do not predict concurrent salivary testosterone levels, Early Human Development, 87, 349-351.
- Charles, N.* & Alexander, G. M. (2011). The association between digit ratios and sociosexuality: A failure to replicate, Archives of Sexual Behavior, 40, 587-595.
- Woods, R. J., Wilcox, T., Armstrong, J., and Alexander, G. M. (2010). Infants' representations of 3-dimensional occluded objects. Infant Behavior and Development, 33, 663-671.
- Alexander, G. M., Wilcox, T., & Farmer, M-B.* (2009). Hormone-behavior associations in early infancy. Hormones and Behavior, 56, 498-502.
- Raz, A., Zhu, H., Yu, S., Bansai, R., Wang, Z., Alexander, G. M., Royal, J., & Peterson, B. S. (2009). Neural substrates of self-regulatory control in children and adults with Tourette Syndrome. Canadian Journal of Psychiatry, 9, 579-588.
- Raz, A., Packard, M. G., Alexander, G. M., Buhle, J. T., Zhu, H., Yu, Shan, & Peterson, B. S. (2009). A slice of π : An exploratory neuroimaging study of digit encoding and retrieval in a superior memorist. Neurocase, 15, 361-372.
- Alexander, G. M., Wilcox, T., & Woods, R.* (2009). Sex differences in infants' visual interest in toys. Archives of Sexual Behavior, 38, 427-433.
- Evardone, M.* & Alexander, G. M. (2009). Anxiety, digit ratios, and sex-linked behavior. Archives of Sexual Behavior, 38, 442-426.
- Alexander, G. M. & Charles, N.* (2009). Sex differences in adults' relative visual interest in female and male faces, toys, and play styles. Archives of Sexual Behavior, 38, 434-441.
- Hines, M. & Alexander, G. M. (2008). Monkeys, girls, boys and toys: a confirmation (Invited commentary). Hormones and Behavior, 54, 478-479.
- Alexander, G. M., & Evardone, M.* (2008). Blocks and Bodies: Sex differences in a novel version of the Mental Rotations Test. Hormones and Behavior, 53 (1), 177-184.
- Evardone, M.*, Alexander, G. M. and Morey, L. C. (2008). Hormones and borderline personality features. Personality and Individual Differences, 44 (1), 278-287.
- Alexander, G. M. & Son, T. (2007). Androgens and eye movements in women and men during a test of mental rotation. Hormones and Behavior, 52, 197-204.
- Alexander, G. M. (2006). Associations among gender-linked toy preferences, digit ratio, and spatial ability: evidence from eye-tracking analysis. Archives of Sexual Behavior, 35, 699-709.

- Marsh, R., Alexander, G. M., Packard, M. G., Zhu, H., & Peterson, B. S. (2005). Perceptual-motor skill learning in Tourette Syndrome. Neuropsychologia, 43, 1456-1465.
- Alexander, G. M. (2005). Memory for face locations: Emotional cues alter sex differences in spatial abilities. Evolution and Human Behavior, 26, 352-362.
- Marsh, R., Alexander, G. M., Packard, M. G., Zhu, H., Wingard, J. C., Quackenbush, G., Stein, B., & Peterson, B. S. (2004). Habit learning in Tourette Syndrome: A translational neuroscience approach to developmental psychopathology. Archives of General Psychiatry, 61, 1259-1268
- Alexander, G. M. & Peterson, B. S. (2004). Testing the prenatal hormone hypothesis of tic-related disorders: Gender identity and gender role behavior. Development and Psychopathology, 16, 407-420.
- Lee, K. K., Berman, N., Alexander, G. M., Hull, L., Swerdloff, R. S., Wang, C. (2003). A simple self-report diary for assessing psychosexual function in hypogonadal men. Journal of Andrology, 24, 688-698.
- Alexander, G. M. (2003). An evolutionary perspective of sex-typed toy preferences: pink, blue, and the brain. Archives of Sexual Behavior, 32, 7-17.
- Kain, Z. N., Mayes, L. C., Calwell-Andrews, A. A., Alexander G. M., Krivutza, D., Teague, B. A., Wang, S. M. (2002). Sleeping characteristics of children undergoing outpatient elective surgery. Anesthesiology, 97, 1093-1101.
- Peterson, B. S., Kane M., Alexander, G. M., Lacadia, C., Skudlarski, P., Leung, H., May, J., Gore, J. C. (2002). An event-related functional MRI study comparing interference effects in the Simon and Stroop Tasks, Cognitive Brain Research, 13, 427-440.
- Smyke, A. T.*, Boris, N. W., & Alexander, G. M. (2002). Fear of spoiling in at-risk African American mothers. Child Psychiatry and Human Development, 32, 295-307.
- Alexander, G. M., & Hines, M. (2002). Sex differences in responses to children's toys in a non-human primate (*Cercopithecus aethiops sabaeus*), Evolution and Human Behavior, 23, 467-479.
- Alexander, G. M., Packard, M. G., Peterson B. S. (2002). Sex and spatial position effects on object location memory following intentional learning of object identities. Neuropsychologia, 40, 1516-1522.
- Alexander, G. M., Altermus, M., Peterson, B. S. & Wexler, B. E. (2002). Replication of a premenstrual decrease in right-ear advantage on language-related dichotic listening tests of cerebral laterality. Neuropsychologia, 40, 1293-1299.
- Kain Z. N., Sevarino F, Rinder C, Pincus S, Alexander, G. M., Mayes L. C., Ivy M, Heninger, G. (2001). Preoperative anxiolysis and postoperative recovery in women undergoing abdominal hysterectomy Anesthesiology, 94, 415-422.
- Alexander, G. M. & Peterson, B. S. (2001). Androgens and developmental psychopathology. CNS Spectrums, 6, 75-88.
- Kain Z. N., Sevarino F., Pincus S., Alexander G. M., Wang S. M., Ayoub C., Kosarussavadi, B. (2000). Attenuation of the preoperative stress response with midazolam: Effects on postoperative outcomes. Anesthesiology, 93, 141-147.

- Kain Z. N., Hofstadter M. B., Mayes L. C., Krivutza D. M., Alexander, G., Wang S. M., Reznick J. S. (2000). Midazolam: effects on amnesia and anxiety in children. Anesthesiology, 93, 676-684.
- Kain Z. N., Sevarino F, Alexander, G. M., Pincus S, Mayes L. (2000). Preoperative anxiety and postoperative pain in women undergoing hysterectomy: A repeated measures design. Journal of Psychosomatic Research, 49(6), 417-422.
- King, B. E.* & Alexander, G. M. (2000). Pain sensitivity and individual differences in human sexual behavior. Journal of Comparative Psychology, 114, 193-199.
- King, B. E.*, Packard, M. G., & Alexander, G. M. (1999). Affective properties of intra-MPOA injection of testosterone in male rats. Neuroscience Letters, 260, 149-152.
- Alexander, G. M., Swerdloff, R. S., Wang, C., Salehian, B., Davidson, T., Steiner, B., & Hines, M. (1998). Androgen-behavior correlations in hypogonadal and eugonadal men: II. Cognitive behavior, Hormones and Behavior, 33, 85-94.
- Packard, M. G., Schroeder, J. P., & Alexander, G. M. (1998). Expression of testosterone conditioned place preference is blocked by peripheral or intra-accumbens injection of alpha-flupenthixol, Hormones and Behavior, 34, 39-47.
- Packard, M. G., Cornell, A. *, & Alexander, G. M. (1997). Rewarding affective properties of intra-accumbens injections of testosterone, Behavioral Neuroscience, 111, 219-224.
- Alexander, G. M., Swerdloff, R. S., Wang, C., Salehian, B. Davidson, T., Steiner, B., & Hines, M. (1997). Androgen-behavior correlations in hypogonadal men and eugonadal men: I. Mood and response to auditory sexual stimuli, Hormones and Behavior, 31, 110-119.
- Wang, C., Eyre D. R., Clark, R., Kleinberg, D., Newman, C., Iranmanesh, A., Veldhuis, J., Dudley, R. E., Berman, N., Barstow, T., Davidson, T., Sinow, R., Alexander, G., Swerdloff. (1996). Sublingual testosterone replacement improves muscle mass and strength, decreases bone resorption and increases bone formation markers in hypogonadal men. Journal of Clinical Endocrinology and Metabolism, 81, 3654-3662.
- Wang, C., Alexander, G., Berman, N. et al. (1996). Testosterone replacement therapy improves mood in hypogonadal men. Journal of Clinical Endocrinology and Metabolism, 81, 3578-3583.
- Packard, M. G., Kohlmaier, J. R., & Alexander, G. M. (1996). Intra-hippocampal administration of estradiol enhances memory in male rats: Interaction with cholinergic systems. Behavioral Neuroscience, 110, 626-632.
- Salehian, B., Wang, C., Alexander, G. et al. (1995). Pharmacokinetics, bioefficacy, and safety of sublingual testosterone cyclodextrin in hypogonadal men: comparison to testosterone enanthate. Journal of Clinical Endocrinology and Metabolism, 80, 3567-3575.
- Alexander, G. M. & Hines, M. (1994). Gender labels and play styles: Their relative contribution to children's selection of playmates. Child Development, 65, 869-879.
- Alexander, G. M., Packard, M. G., & Hines, M. (1994). Testosterone has rewarding affective properties in male

rats: Implications for the biological basis of sexual motivation. Behavioral Neuroscience, 108, 424-428.

Alexander, G. M. & Sherwin, B. B. (1993). Sex steroids, sexual behavior, and selective attention for erotic stimuli in women using oral contraceptives. Psychoneuroendocrinology, 18, 91-102.

Alexander, G. M., Sherwin, B. B. (1991). The association between testosterone, sexual arousal, and selective attention for erotic stimuli in men. Hormones and Behavior, 25, 367-381.

Bancroft, J. B., Sherwin, B. B., Alexander, G. M., Davidson, D. W., & Walker, A. (1991). Aspects of sexuality in oral contraceptive users and non-users. I. Sexual experience, sexual attitudes and gender role. Archives of Sexual Behavior, 20, 105-120.

Bancroft, J. B., Sherwin, B. B., Alexander, G. M., Davidson, D. W., & Walker, A. (1991). Aspects of sexuality in oral contraceptive users and nonusers. II. The role of androgens. Archives of Sexual Behavior, 20, 121-136.

Alexander, G. M., Sherwin, B. B., Bancroft, J. B., & Davidson, D. W. (1990). Testosterone and sexual behavior in oral contraceptive users and nonusers: A prospective study. Hormones and Behavior, 24, 388-402.

Book Chapters

Alexander, G. M. (1995). Androgens and cognitive function. In: Pharmacology, Biology, and Clinical Applications of Androgens. New York: Wiley-Liss, Inc., pp. 189-206.

Alexander, G. M. (1998). Androgens and behavior in men. In: Male Reproductive Function, C. Wang (Ed.), Kluwer Academic.

Morey, L. C., Alexander, G. M., & Boggs, C. (2005). Gender. In: Textbook of Personality Disorders. John M. Oldham, M. D., M. S., Andrew E. Skodol, M. D., & Donna S. Bender, Ph.D. (Eds). Arlington: American Psychiatric Publishing, Inc.

RESEARCH MEASURES DEVELOPED

The Playmate and Play Style Preferences Structured Interview (PPPSI) (Alexander & Hines, 1994)
Description: The measure consists of drawings of two figures placed on either side of a central line with a toy or activity depicted below each figure. Children respond to the question "Who would you like to play with?" by pointing to the preferred figure. Responses indicate the preferred gender of playmates (male or female), the preferred play style (masculine or feminine) and the relative importance or relative salience of the two dimensions in partner preferences. The measure is appropriate for use with children who are not able to complete paper and pencil questionnaires and for studies on clinical populations (e.g., Fridell, S. R., Owen-Anderson, A., Johnson, L. L. et al., (2006). The Playmate and Play Style Preferences Structured Interview: A comparison of children with gender identity disorder and controls, Archives of Sexual Behavior, 35, 729-737).

Self Report Diary of Psychosexual Function (Wang, C., Alexander, G., Berman, N. et al., 1996)
Description: A validated, brief self-report measure of male sexual function used in research on the treatment of male sexual dysfunction associated with hormonal deficiencies (see Lee et al., 2003 in publication list).

Dancing Aggies: A Modified Mental Rotations Test (Alexander & Evardone, 2008)

Description: The modified version of the standard mental rotation test replaces original block figure items with three-dimensional human figure items. The rotation of the human figures in three-dimensional space and the serial positioning of correct and incorrect items are identical to the original task. The measure has been obtained for use by other researchers, including researchers in the Department of Epidemiology at UC Berkeley for the Center for the Health Assessment of Mothers and Children of Salinas (CHAMOCs), and the Department of Psychology, University of New Brunswick, Canada.

*UNIVERSITY TEACHING EXPERIENCE AND INTERESTS (*signifies a new course offering)*

Texas A&M University

Graduate courses

Psychopathology	PSYC 626
Brain, Gender, & Psychopathology*	PSYC 689

Undergraduate courses

Introductory Psychology	PSYC 107
Human Sexuality*	PSYC 489
Hormones and Behavior*	PSYC 489
Gender and Reproduction*	LBAR 204-200

University of New Orleans

Graduate courses

Gender Development
Methods in Developmental Psychology

Undergraduate courses

Adolescent Development
History and Methods
Human Sexuality
Introductory Psychology
Personality

PROFESSIONAL & UNIVERSITY SERVICE

Professional Contributions

Editor-in-Chief

Review of General Psychology (2014 -2019)

Editorial Boards

Archives of Sexual Behavior (2001 -2016)

Ad Hoc Journal Reviewing

Biological Psychology	Brain and Cognition
British Journal of Psychology	Cognition
Developmental Psychology	European Journal of Cognitive Psychology
Hormones and Behavior	Learning and Individual Differences
Journal of Child Psychology and Psychiatry	Journal of Sex Research
Neuropsychologia	Perspectives in Psychological Science

Personality and Individual Differences
Psychological Science

Pharmacology, Biochemistry and Behavior
Psychoneuroendocrinology

Research Grant Reviewer

National Science Foundation (Ad Hoc reviewer)
Canada Foundation for Innovation (Research Infrastructure Funding Program)

Professional Associations

American Psychological Society
International Society of Sex Research (Full Member)
Society for Behavioral Neuroendocrinology (Full Member)

Academic Committees

University

Member: TSOC (2016-)
Member, University Research Council (2012-2018)
Member, Graduate Operations Committee (2014-2018)
Member, One Health Executive Council (2013-2016)
Member, TAMU Multi-Disciplinary Accounting (T-MAC) Committee (2013-2016)
Member, HASS Deans Council (2010-2013)
Member, Biomedical Research Ad Hoc Group (2010-2011)
Member, Conflict of Interest Working Group (2010-2013)
Member, Women's Studies Research Advisory Council (2002)

College

Chair, CLA Planning and Resource Committee (2010-2015)
Member, College of Liberal Arts, Ad Hoc Committee for Civil Discourse (2009-2010)
Member, College of Liberal Arts, Ad Hoc Committee for Diversity & Pedagogy (2009-2011)
Member, College of Liberal Arts Dean's Diversity Advisory Committee (2007-2011)

Department

Chair, Awards Committee (2010-2012)
Chair, Africana Studies/Psychology Joint Position Search Committee (2008-2010)
Chair, Diversity Committee (2005-2011)
Member, Women's Studies/Psychology Joint Position Search Committee (2007 - 2008)
Member, Advisory Committee (2007 - present)
Member, Social Search Committee (2006 - 2007)
Member, I/O Search Committee (2004 - 2005)
Member, Clinical Search Committee (2003 - 2004)
Member, Graduate Policy Committee (2003 - 2004)
Member, Clinical Curriculum Committee (2003 - 2004)

REFERENCES