

CURRICULUM VITAE

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Personal: b. Springfield, Mo.

Academic: Yale University, New Haven, CT.
B.A., 1976, cum laude, psychology.
Departmental honors.
Angier prize for senior psychology research project.
University of California, Los Angeles.
M.A., 1978, psychology.
Franz award for outstanding teaching assistant, 1979.
Ph.D., 1982, physiological psychology.

Employment: Assistant Professor of Psychology, University of California, Berkeley, 1982-1987.
Associate Professor of Psychology, University of California, Berkeley, 1987-1991.
Professor of Psychology, University of California, Berkeley, 1991-2003.
Barnett Rosenberg Chair of Neuroscience, Michigan State University, 2001-present.

Awards: Donald B. Lindsley Prize for PhD dissertation, Society for Neuroscience, 1982.
Presidential Young Investigator award, NSF, 1985.
McKnight Foundation Scholars award in neuroscience, 1985.
Alfred P. Sloan Foundation Fellowship in Neurosciences, 1985.
Early Career Award, American Psychological Association, 1987.
James McKeen Cattell Sabbatical Award for Psychologists (APA), 1993.
Fellow, American Psychological Society (APS), 1997.
Grawemeyer Visiting Scholar, University of Louisville, 2004-2005.
Distinguished Professor Award, Michigan State University, 2007.
Fellow, American Association for the Advancement of Science (AAAS), 2010.

Teaching evaluations:  Student Evaluations Breedlove

TEDxMSU talk [“Prenatal Influences on Sexual Orientation”](#) from 2019 has >100,000 views.

Editorial Boards: *Hormones and Behavior*, 1987-present.
Journal of Sex Research, 1988-1991.
Journal of Neuroscience, 1990-1996.
Endocrinology, 2005-2008.

Citations: *Web of Science* lists 298 “Breedlove SM” authored publications that have been cited in 6,073 different articles, 10,099 total citations excluding self-citations, for an average of 36 citations per article and an h-index of 55 as of April 2023. Google scholar reports >20,000 citations, an h-index of 77 and i10-index of 175 as of Aug 2025.

Publications:

- T.Allison, S.D.Gerber, S.M.Breedlove & G.L.Dryden (1977) A behavioral and polygraphic study of sleep in the shrews *Suncus murinus*, *Blarina brevicauda* and *Cryptotis parva*. *Behavioral Biology* 20: 354-366.
- J.M.Siegel, D.J.McGinty & S.M.Breedlove (1977) Sleep and waking activity of pontine gigantocellular field neurons. *Experimental Neurology* 56: 553-573.
- J.M.Siegel, S.M.Breedlove & D.J.McGinty (1979) Photographic analysis of relation between unit activity and movement. *Journal Neuroscience Methods* 1: 159-164.
- S.M.Breedlove, D.J.McGinty & J.M.Siegel (1979) Operant conditioning of pontine gigantocellular units. *Brain Research Bulletin* 4: 663-667.
- J.M.Siegel, R.L.Wheeler, S.M.Breedlove & D.J.McGinty (1980) Brainstem units related to movements of the pinna. *Brain Research* 202: 183-188.
- S.M.Breedlove & A.P.Arnold (1980) Hormone accumulation in a sexually dimorphic motor nucleus in the rat spinal cord. *Science* 210: 564-566.
- S.M.Breedlove & A.P.Arnold (1981) Sexually dimorphic motor nucleus in the rat lumbar spinal cord: response to adult hormone manipulation, absence in androgen-insensitive rats. *Brain Research* 225: 297-307.
- S.M.Breedlove (1982) Hormonal influences on a sexually dimorphic motor nucleus in the rat spinal cord. Ph.D. dissertation, University of California, Los Angeles.
- S.M.Breedlove, C.D.Jacobson, R.A.Gorski & A.P.Arnold (1982) Masculinization of the female rat spinal cord following a single injection of testosterone propionate but not estradiol benzoate. *Brain Research* 237: 173-181.
- C.L.Jordan, S.M.Breedlove & A.P.Arnold (1982) Sexual dimorphism in the dorsolateral motor nucleus of the rat lumbar spinal cord and its response to neonatal androgen. *Brain Research* 249: 309-314.
- S.M.Breedlove & A.P.Arnold (1983a) Hormonal control of a developing neuromuscular system: I. Complete demasculinization of the spinal nucleus of the bulbocavernosus in male rats using the antiandrogen, flutamide. *Journal of Neuroscience* 3: 417423.
- S.M.Breedlove & A.P.Arnold (1983b) Hormonal control of a developing neuromuscular system: II. Sensitive periods for the androgen induced masculinization of the rat spinal nucleus of the bulbocavernosus. *Journal of Neuroscience* 3: 424432.
- S.M.Breedlove & A.P.Arnold (1983c) Sex differences in the pattern of steroid accumulation by motoneurons of the rat lumbar spinal cord. *Journal of Comparative Neurology* 215: 211216.
- S.M.Breedlove, C.L.Jordan & A.P.Arnold (1983) Neurogenesis of motoneurons in sexually dimorphic spinal nucleus of the bulbocavernosus in rats. *Developmental Brain Research* 9: 3943.
- S.M.Breedlove (1983) Regional sex differences in steroid accumulation in vertebrate nervous systems. *Trends in Neuroscience* 6: 403-406.
- S.M.Breedlove (1984) Steroid influences on the development and function of a neuromuscular system. *Progress in Brain Research* 61: 147-170.
- S.M.Breedlove (1985) Hormonal control of the anatomical specificity of motoneuron to muscle innervation in rats. *Science* 227: 13571359.
- A.P.Arnold & S.M.Breedlove (1985) Organizational and activational effects of sex steroid hormones on vertebrate behavior: A reanalysis. *Hormones & Behavior*, 19:469498.
- R.B.Fishman & S.M.Breedlove (1985) The androgenic induction of spinal sexual dimorphism is independent of supraspinal afferents. *Developmental Brain Research*, 23: 255258.
- S.M.Breedlove (1986) Cellular analyses of hormone influence on motoneuronal development and function. *Journal of Neurobiology* 17: 157176.
- N.G.Forger & S.M.Breedlove (1986) Sexual dimorphism in human and canine spinal cord: role of early androgen. *Proceedings National Academy of Sciences*, 83: 7527-7531.
- N.G.Forger & S.M.Breedlove (1987) Seasonal variation in mammalian striated muscle mass and motoneuron morphology. *Journal of Neurobiology*, 18: 155-165.
- M.N.Rand & S.M.Breedlove (1987) Ontogeny of functional innervation of bulbocavernosus muscles in male and female rats. *Developmental Brain Research*, 33: 150-152.
- N.G.Forger & S.M.Breedlove (1987) Motoneuronal death during human fetal development. *Journal of*

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- R.B.Fishman & S.M.Breedlove (1988) Neonatal androgen maintains sexually dimorphic perineal muscles in the absence of innervation. *Muscle and Nerve*, 11:553-560.
- R.B.Fishman & S.M.Breedlove (1988) Sexual dimorphism in the developing nervous system. In, *Handbook of Human Growth and Developmental Biology*, E.Meisami & P.Timiras (Eds), CRC Press, Boca Raton.
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- E.P.Monaghan & S.M.Breedlove (1991) "Hormonal influences on behavior", article for *Encyclopedia of Human Biology*, Vol. 4, R.Dulbecco (Ed.), Academic Press, San Diego.
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- S.M. Breedlove (2000) review of *Sexing the body: gender politics and the construction of sexuality* by Anne Fausto-Sterling. *New England Journal of Medicine* 343: 668.
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