CURRICULUM VITAE: MARLENE ZUK

Department of Ecology, Evolution and Behavior

University of Minnesota

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**EDUCATION**

 B.A. 1977 University of California, Santa Barbara Biology

 M.S. 1983 University of Michigan Biology

 Ph.D. 1986 University of Michigan Zoology

**RESEARCH INTERESTS**

 Behavioral ecology: Sexual selection and reproductive behavior; acoustic communication

 Evolutionary biology: Influence of host-parasite interactions on behavior, evolution and ecology

 Gender and science: women in science and academia; how gender influences the practice of biology

**PROFESSIONAL EXPERIENCE**

2019 – Regents Professor, Ecology, Evolution and Behavior, University of Minnesota

2015 – 2023 Associate Dean for Faculty, College of Biological Sciences, University of Minnesota

2012 – Professor, Ecology, Evolution and Behavior, University of Minnesota

1998 – 2012 Professor, Dept. of Biology, University of California, Riverside

2005 – 2010 Associate Vice Provost for Faculty Equity and Diversity, University of California, Riverside

1999, 2011 Visiting Professor, Uppsala University, Sweden

1996, 2004 Visiting Scientist, University of Western Australia

1994–1998 Associate professor, Dept. of Biology, University of California,

Riverside

1989–1994 Assistant professor, Dept. of Biology, University of California,

Riverside

1987–1989 Post-doctoral associate and adjunct assistant professor, University of New Mexico

1980–1985 Teaching assistant, University of Michigan

**HONORS AND AWARDS**

2023 BBVA Foundation Frontiers of Knowledge Award, Ecology and Conservation Biology

2022 Distinguished Animal Behaviorist award, Animal Behavior Society

2020 Miegunyah Fellowship, University of Melbourne (accepted 2023)

2019 Named Regents Professor, University of Minnesota

2019 Elected Member, National Academy of Sciences, USA

2018 Evans Fellowship, University of Otago, New Zealand

2017 Elected Member, American Academy of Arts and Sciences

2016 Honorary Doctorate, University of Jyväskylä, Finland

2015 Convocation faculty speaker, University of Minnesota

2015 E.O. Wilson Award, American Society of Naturalists

2014 Linnaeus Lecturer, Uppsala University, Sweden

2014 Odum Lecturer, University of Georgia

2014 Hamilton Lecturer, International Society for Behavioral Ecology, NYC

2013 Tinbergen Lecturer, Association for the Study of Animal Behaviour

2009 Honorary Doctorate, Uppsala University, Sweden

1. Hood Fellowship, University of Auckland, New Zealand
2. Commencement Speaker, College of Creative Studies, University of

California, Santa Barbara

2007 Elected Fellow, Animal Behavior Society

1. Exemplar award, Center for the Integrative Study of Animal Behavior

1999 Elected Fellow, American Association for the Advancement of Science

1996 Quest Award for distinguished contribution, Animal Behavior Society

 1996 - 1998 Sigma Xi National Lectureship

 1992 - 1997 National Science Foundation Young Investigator Award

 1988 Outstanding Young Investigator Prize, American Society of Naturalists

**GRANTS AWARDED**

National Science Foundation: “RAPID: Reproductive behavior of an unlikely colonist,” (Justa Heinen-Kay, co-PI) 2019-2022

National Science Foundation: “Parasitism as a selective pressure on seasonal migration,” co-PI (A. Shaw, PI; M.Craft, S. Binning co-PIs) 2017-2021

Norwegian Centennial Chair Program: “Plague Ecosystem Resilience to Intervention (PERI): A One Health Approach, co-PI (N.C. Stenseth, University of Oslo, PI; Susan Jones, UM, co-PI), 2016-2018

National Science Foundation: DISSERTATION RESEARCH: “Consequences of adaptive behavioral plasticity for selection on an acoustic signal” (Jessie Tanner, student) 2016-2018

National Science Foundation: “DISSERTATION RESEARCH: Parasites, immunity and sexual selection in Western Bluebirds” (Anne Jacobs, student) 2012-2014

National Science Foundation: “The role of behavior in the establishment of novel traits,” 2011-2015 (with REU supplements)

National Science Foundation: “DISSERTATION RESEARCH: How life history influences host manipulation by parasites in the California fiddler crab, *Uca crenulata*” (Adrienne Mora, student) 2011-2013

University of California Pacific Rim Research Program: “Human and insect associations in Oceania: a biological and cultural investigation into the movement of humans and their folklore across the Pacific”, 2008-2010 (co-PI; N.W. Bailey, PI)

National Science Foundation: “Causes and consequences of rapid sexual signal change in a field cricket”, 2007-2011 (with extension)

National Geographic Society: “Silent night: rapid adaptive loss of calling in a field cricket”, 2005-2006

National Science Foundation: “Collaborative Research: Reproductive Behavior and Pathogen Resistance”, 2003-2007 (with REU supplements)

Smithsonian Tropical Research Institute: Visiting Senior Scientist award for field studies in Panama, 2003

National Science Foundation: “Sexual selection and the evolution of disease susceptibility”, 2000-2002

National Science Foundation: “Female variability and the nature of male quality”, 1996-1999 (with REU supplements).

National Science Foundation, “The evolution of intelligence in response to social complexity”, 1996-1999, K. Holekamp, P.I.; L. Smale and M. Zuk, co-PIs. (funded through Michigan State University)

National Science Foundation: “Endocrine and immune system effects on sexual selection”, 1992-1994 (with REU supplements)

National Science Foundation, "The role of parasites in population regulation", Young Investigator Award, 1992-1997 (with REU supplements)

National Geographic Society, "Acoustically-orienting parasitoid flies and their cricket hosts", 1992-1993

American Philosophical Society, "Acoustically-orienting parasitoids and the evolution of insect song", 1994

**PUBLICATIONS**

Hamilton, W.D. and M. Zuk. 1982. Heritable true fitness and bright birds: a role for parasites? Science 213:384-387.

Zuk, M. 1987. Variability in attractiveness of male field crickets (Orthoptera: Gryllidae) to females. Anim. Behav. 35:1240-1248.

Zuk, M. 1987. The effects of gregarine parasites, body size, and time of day on spermatophore production and sexual selection in field crickets. Behav. Ecol. Sociobiol. 21:65-72.

Zuk, M. 1987. Seasonal and individual variation in gregarine parasite levels in the field crickets *Gryllus veletis* and *G. pennsylvanicus*. Ecol. Entomol. 12:341-348.

Zuk, M. 1987. The effects of gregarine parasites on longevity, weight loss, fecundity and developmental time in the field crickets *Gryllus veletis* and *G. pennsylvanicus*. Ecol. Entomol. 12:349-354.

Zuk, M. 1987. Age determination of adult field crickets: methodology and field applications. Can. J. Zool. 65:1564-1566.

Zuk, M. 1988. Parasite load, body size, and age of wild-caught male field crickets (Orthoptera: Gryllidae): Effects on sexual selection. Evolution 42:969-976.

Zuk, M. 1989. Male ornaments in red jungle fowl. Kudu Review 21:1,16-17.

Zuk, M. 1989. Validity of sexual selection in birds. Nature 340:104.

Hamilton, W.D. and Zuk, M. 1989. Parasites and sexual selection. Nature 341:289-290.

Zuk, M., Johnson, K., Thornhill, R. and J.D. Ligon. 1990. Mechanisms of mate choice in red jungle fowl. Evolution 44:477-485.

Zuk, M., Thornhill, R., Johnson, K., and J.D. Ligon. 1990. Parasites and mate choice in red jungle fowl. American Zoologist 30:235-244.

Ligon, J.D., Thornhill, R., Zuk, M., and K. Johnson. 1990. Male-male competition in red jungle fowl and the multiple roles of testosterone in sexual selection. Anim. Behav. 40:367-373.

Zuk, M. 1990. Reproductive strategies and sex differences in disease susceptibility: an evolutionary viewpoint. Parasitology Today 6:231-233.

Zuk, M., Thornhill, R., Ligon, J.D., Johnson, K., S. Austad, S. Ligon, N. Thornhill, and C. Costin. 1990. The role of male ornaments and courtship behavior in female choice of red jungle fowl. Amer. Nat. 136:459-473.

Zuk, M., Johnson, K., Thornhill, R., and J.D. Ligon. 1990. Parasites and male ornaments in free-ranging and captive red jungle fowl. Behaviour 114:232-248.

Zuk, M. 1991. Parasites and bright birds: new data and a new prediction. Pages 317-327 in (J. Loye and M. Zuk, eds.) Bird-parasite Interactions: Ecology, Evolution and Behaviour. Oxford University Press.

Zuk, M. 1991. Sexual ornaments as animal signals. Trends Ecol. Evol. 6:228-231.

Zuk, M. 1992. The role of parasites in sexual selection: current evidence and future directions. Advances in the Study of Behavior 21:39-68.

Zuk, M. 1992. Sexual preference and genetic correlations: a reply. Trends Ecol. Evol. 7:30.

Simmons, L.W. and M. Zuk. 1993. Variability in call structure and pairing success of male field crickets, *Gryllus bimaculatus*: the effects of age, size, and parasite load. Animal Behaviour 44:1145-1152.

Zuk, M., Ligon, J.D., and Thornhill, R. 1993. Effects of experimental manipulation of male secondary sex characters on female mate preference in red jungle fowl. Animal Behaviour 44:999-1006.

Johnson, K., Thornhill, R., Ligon, J.D., and Zuk, M. 1993. The direction of mothers' and daughters' preferences and the heritability of male ornaments in red jungle fowl (*Gallus gallus*). Behavioral Ecology 4:254-259.

Zuk, M., Simmons, L.W., and Cupp, L. 1993. Calling characteristics of parasitized and unparasitized populations of the field cricket *Teleogryllus oceanicus*. Behav. Ecol. and Sociobiol. 33:339-343.

Zuk, M. 1993. Feminism and the study of animal behavior. BioScience 43:774-778.

Zuk, M. 1994. Immunology and the evolution of behavior. Pp. 354-368 In: Behavioral Mechanisms in Ecology, L. Real (ed.). University of Chicago Press, Chicago IL.

Zuk, M. and J. G. Decruyenaere. 1994. Measuring individual variation in colour: a comparison of two techniques. Biol. J. Linn. Soc. 53:165-173.

Simmons, L.W. and M. Zuk. 1994. Age structure of parasitized and unparasitized populations of the field cricket *Teleogryllus oceanicus*. Ethology 98:333-340.

Zuk, M. 1994. Singing under pressure: phonotactic parasitoid flies in Hawaiian cricket hosts. Research & Exploration 10:477-484.

Chappell, M.A., Zuk, M., Kwan, T.H. and T.S. Johnsen. 1995. Energy cost of an avian vocal display: crowing in red junglefowl. Anim. Behav. 49:255-257.

Zuk, M., Johnsen, T.S., and MacLarty, T. 1995. Endocrine-immune interactions, ornaments and mate choice in red jungle fowl. Proc. R. Soc. Lond. B. 260:205-210.

McKean, K. and M. Zuk. 1995. The evolution of signaling in immunology and behavior. Naturwissenschaften 82:509-516.

Zuk, M., Simmons, L.W., and J.T. Rotenberry. 1995. Acoustically-orienting parasitoids in calling and silent males of the field cricket *Teleogryllus oceanicus*. Ecological Entomology 20:380-383.

Johnsen, T.S. and M. Zuk. 1995. Testosterone and aggression in male red jungle fowl. Hormones and Behavior 29:593-598.

Zuk, M., Popma, S.L., and T.S. Johnsen. 1995. Male courtship displays, ornaments, and female mate choice in captive red jungle fowl. Behaviour 132:821-836.

Johnsen, T.S. and M. Zuk. 1996. Repeatability of mate choice in female red jungle fowl. Behavioral Ecology 7:243-246.

Rotenberry, J.T., Zuk, M., Simmons, L.W. and C. Hayes. 1996. Phonotactic parasitoids and cricket song structure: an evaluation of alternative hypotheses. Evol. Ecol. 10:233-243.

McKean, K.A., Nunney, L., and M. Zuk. 1996. Immunology taught by Darwin. Science 272:634-635.

Zuk, M. Bryant, M.J., Kolluru, G.R., and V. Mirmovitch. 1996. Trade-offs in parasitology, evolution and behaviour. Parasitol. Today 12:46-47.

Zuk, M. and K.A. McKean. 1996. Sex differences in parasite infections: patterns and processes. Int. J. Parasitol. 26:1009-1024.

Zuk, M. 1996. Sexual selection, endocrine-immune interactions and disease. Ecology 77:1037-1042.

Chappell, M.A., Zuk, M., and T.S. Johnsen. 1997. Repeatability of aerobic performance in red junglefowl: effects of ontogeny and nematode infection. Func. Ecol. 10:578-585.

Zuk, M. and L.W. Simmons. 1997. Reproductive strategies of the crickets (Orthoptera: Gryllidae). In: The Evolution of Mating Systems in Insects and Arachnids. Cambridge University Press. J.C. Choe and B.J. Crespi, eds.

Zuk, M. 1997. Darwinian medicine dawning in a feminist light. Pp. 417-430 in: Feminism and evolutionary biology: boundaries, intersections, and frontiers (P.A. Gowaty, ed.). Chapman and Hall, New York.

Chappell, M.A., Zuk, M., Johnsen, T.S., and T.H. Kwan.1997. Mate choice and aerobic capacity in red junglefowl. Behaviour 134:511-530.

Fausto-Sterling, A., Gowaty, P.A., and M. Zuk. 1997. Evolutionary psychology and Darwinian feminism. Feminist Studies 23:403-417.

Zuk, M., Kim, T., Kristan, D., and L.L. Luong. 1997. Sex, pain and parasites. Parasitol. Today 13:332-333.

Zuk, M., Rotenberry, J.T., and L.W. Simmons. 1998. Calling songs of field crickets (*Teleogryllus oceanicus*) with and without phonotactic parasitoid infection. Evolution 52:166-171.

Zuk, M., Kim, T., Robinson, S., and T.S. Johnsen. 1998. Parasites influence social rank and morphology, but not mate choice, in female red jungle fowl (*Gallus gallus*). Animal Behaviour56:493-499.

Zuk, M. and Kolluru, Gita R. 1998. Exploitation of sexual signals by predators and parasitoids. Quart. Rev. Biol. 73:415-438.

Johnsen, T.S. and M. Zuk. 1998. Parasites, morphology and blood characters in male red jungle fowl during development. Condor 100:749-752.

Zuk, M. and Johnsen, T.S. 1998. Seasonal changes in the relationship between ornamentation and immune response in red jungle fowl. Proc. R. Soc. Lond. B.265:1631-1635.

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Chappell, M.A., Zuk, M., and Johnsen, T.S. 1999. Aerobic performance does not affect social rank in female Red Jungle Fowl. Func. Ecol. 13:163-168.

Zuk, M. 1999. Immune function and sexual selection. Pp. 2173-2181 In: Adams, N. & Slowtow, R. (Eds), Proc. 22nd Int. Ornithol. Congr., Durban, University of Natal.

Zuk, M. and McKean, K.A. 2000. Signals, parasites and the immune system. Pp. 407-419 in:Espmark,Y., Amundsen,T. & Rosenqvist,G. (Eds.) Animal Signals: Signalling and Signal Design in Animal Communication. Tapir Academic Press, Trondheim, Norway.

Sheridan, L.A.D., Poulin, R., Ward, D.F. and Zuk, M. 2000. Sex differences in parasitic infections among arthropod hosts: is there a male-bias? Oikos 88: 327-334.

Zuk, M. and Johnsen, T.S. 2000. Social environment and immunity in male red jungle fowl. Behavioral Ecology. 11:146-153.

Luong, L.T., Platzer, E.G., Zuk, M. and Giblin-Davis, R.M. 2000. Venereal worms: sexually-transmitted nematodes. J. Parasitology 86:471-477.

Kim, T. and M. Zuk. 2000. The effects of age and previous experience on social rank in female red jungle fowl (*Gallus gallus spadiceus*). Animal Behaviour 60:239-244.

Zuk, M. 2000. Role models and model systems: the use of males and females in evolution. In: Haukanes, Haldis (Ed.). *Feminism 2000: Biology, Technology and Politics*. Conference Report. Centre for Women's and Gender Research, University of Bergen, Norway.

Zuk, M. 2000. Noted biologist Bill Hamilton dies. Evolution 54:1075-1076.

Zuk, M. 2000. A career of many colors**.** Parasitology Today 16:457-458.

Johnsen, T.S., Zuk, M., and Fessler, E.A. 2001. Social dominance, male behaviour and mating in mixed-sex flocks of red jungle fowl. Behaviour 138:1-18.

Kolluru, G.R. and Zuk, M. 2001. Parasitism patterns and the size-fecundity relationship in the acoustically-orienting dipteran parasitoid, *Ormia ochracea*. Canadian Journal of Zoology 79:973-979.

Simmons, L.W., Zuk, M., and Rotenberry, J.T. 2001. Geographic variation in female preference functions and male songs of the field cricket, *Teleogryllus oceanicus*. Evolution 55:1386-1394.

Panhuis, T.M., Butlin, R., Zuk, M. and Tregenza, T. 2001. Sexual selection and speciation. Trends Ecol. Evol. 16:364-371.

Zuk, M., Rotenberry, J.T., and Simmons, L.W. 2001. Geographical variation in calling song of the field cricket *Teleogryllus oceanicus*: the importance of spatial scale. J. Evol. Biol. 14:731-741.

Kolluru, G.R., Zuk, M., and Chappell, M.A. 2002. Reduced reproductive effort in male field crickets infested with parasitoid fly larvae. Behavioral Ecology 13:607-614.

Zuk, M. 2002. Assortative Mating: pp 83-86; Mate Choice: An Overview: pp. 668-673; and Sexual Selection: An Overview, pp. 1047-1051. Three sections in Encyclopedia of Evolution, Oxford University Press.

Zuk, M. and Stoehr, A.M. 2002. Immune defense and life history. The American Naturalist160: s9-s22.

Zuk, M. 2002. A straw man on a dead horse: Studying adaptation then and now. Commentary on Andrews et al.: Adaptationism – How To Carry Out an Exaptationist Program. (invited contribution) Behavioral and Brain Sciences 25: 533-534.

Lewkiewicz, D.A. and Zuk, M. 2004. Latency to resume calling after disturbance in the field cricket, *Teleogryllus oceanicus*, corresponds to population-level differences in parasitism risk. Behav. Ecol. Sociobiol. 55: 569-573.

Zuk, M., Simmons, L.W., Rotenberry, J.T., and Stoehr, A.M. 2004. Sex differences in immunity in two species of field crickets. Can. J. Zool. 82: 627-634.

Fedorka, K.M, Zuk, M., and Mousseau, T.A. 2004. Immune suppression and the cost of reproduction in the ground cricket, *Allonemobius socius*. Evolution 58:2478-2485.

Kolluru, G.R., Chappell, M.A., and Zuk, M. 2004. Sex differences in insect metabolic rates: field crickets (*Teleogryllus oceanicus*) and their dipteran parasitoids (*Ormia ochracea*). Journal of Comparative Physiology ­ Part B 174: 641-648.

Patten, M.A., J.T. Rotenberry, and M. Zuk 2004.  Habitat selection, acoustic adaptation, and the evolution of reproductive isolation.  Evolution 58:2144-2155.

Zuk, M. 2005. Animal Models and Gender. Pp. 7-16 in Gender in Cross-Cultural Perspective, 4th ed. C.B. Brettell and C.F. Sargent, eds. Prentice Hall, New York.

Simmons, L.W., Zuk, M., and Rotenberry, J.T. 2005. Immune function reflected in calling song characteristics in a natural population of the cricket *Teleogryllus commodus*. Animal Behaviour 69:1235-1241.

Fedorka, K.M. and Zuk, M. 2005. Sexual conflict and female immune suppression in the cricket, *Allonemobious socius*. J. Evol. Biol. 18: 1515-1522

Fedorka, K.M, Zuk, M., and Mousseau, T.A. 2005. Natural selection drives the link between male immune function and reproductive potential. Can. J. Zool. 83: 1012-1014.

Zuk, M. and Rosenqvist, G. 2005. Evaluation bias hits women who aren't twice as good. (correspondence). Nature 438: 559.

Zuk, M. 2006. Family values in black and white. Nature 439: 917.

Zuk, M. 2006. The case of the female orgasm. Perspectives in Biology and Medicine 49:294–98.

Lessells, C.M., Bennett, A.T.D., Birkhead, T.R., Colegrave, N., Dall, S.R.X., Harvey, P.H., Hatchwell, B., Hosken, D.J., Hunt, J., Moore, A.J., Parker, G.A., Pitnick, S., Pizzari, T., Radwan, J., Ritchie, M., Sheldon, B.C., Shuker, D.M., Simmons, L.W., Stockley, P., Tregenza, T. and Zuk M. (order of authors after first is alphabetical) 2006. Debating sexual selection and mating strategies. Science 312: 689-690.

Pizzari, T., Birkhead, T.R., Blows, M.W., Brooks, R., Buchanan, K.L., Clutton-Brock, T.H., Harvey, P.H., Hosken, D.J., Jennions, M.D., Kokko, H., Kotiaho, J.S., Lessells, C.M., Macias-Garcia, C., Moore, A.J., Parker, G.A., Partridge, L., Pitnick, S., Radwan, J., Ritchie, M., Sheldon, B.C., Simmons, L.W., Snook, R.R., Stockley, P. and Zuk M. (order of authors after first is alphabetical) 2006. Debating sexual selection and mating strategies. Science 312: 690.

Tregenza, T., Simmons, L.W., Wedell, N., and Zuk, M. 2006. Female preference for male courtship song and its role as a signal of immune function and condition. Animal Behaviour 72: 809-818.

Zuk, M., Rotenberry, J.T., and Tinghitella, R.M. 2006. Silent night: Adaptive disappearance of a sexual signal in a parasitized population of field crickets. Biology Letters 2: 521-524.

Gray, D.A., Banuelos, C.M., Walker, S.E., Cade, W.H., and Zuk, M. 2007. Behavioural specialisation among populations of the acoustically-orienting parasitoid fly *Ormia ochracea* utilising different cricket species as hosts. Animal Behaviour 73: 99-104

Zuk, M. 2007. Sexual selection theory. In: International Encyclopedia of the Social Sciences, 2nd edition, Ed. William A. Darity, Jr. Macmillan Reference, USA.

Bailey, N.W. and Zuk, M. 2008. Changes in immune effort of male field crickets infested with mobile parasitoid larvae. Journal of Insect Physiology 54: 96-104.

Bailey, N.W., McNabb, J.R., and Zuk, M. 2008. Pre-existing behavior facilitated the loss of a sexual signal in the field cricket *Teleogryllus oceanicus*. Behavioral Ecology 19: 202-207.

Zuk, M. and Tinghitella, R.M. 2008. Rapid evolution and sexual selection. In: Sociobiology of communication, P. D’Ettorre and D.P. Hughes, eds. Oxford University Press.

Zuk, M. 2008. William D. Hamilton. In: Evolution: the first four billion years, M. Ruse and J. Travis, eds. Harvard University Press.

Zuk, M., Rebar, D., and Scott, S.P. 2008. Courtship song is more variable than calling song in the field cricket *Teleogryllus oceanicus*. Animal Behaviour76**:** 1065-1071.

Bailey, N.W., Gray, B., and Zuk, M. 2008. Does immunity vary with population density in wild populations of Mormon crickets? Evolutionary Ecology Research 10: 599-610.

Hauber, M.E., Sewall, M.A., Zuk, M. 2008. Gender genomics and equality. Heredity 101: 395.

Zuk, M. and Bailey, N.W. 2008. Birds gone wild: same-sex pairing in Laysan albatross. Trends in Ecology & Evolution 23**:** 658-660.

Bailey, N.W. and Zuk, M 2008. Acoustic experience shapes female mate choice in field crickets. Proc. R. Soc. Lond. B 275: 2645-2650.

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Tinghitella, R.M., Wang, J.M., and Zuk, M. 2009. Preexisting behavior renders a mutation adaptive: flexibility in male phonotaxis behavior and the loss of singing ability in the field cricket *Teleogryllus oceanicus*. Behavioral Ecology 20: 722-728.

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Chappell MA, Bailey NW, Redak RA, Antolin, M. and Zuk, M. 2009. Metabolic Similarity Despite Striking Behavioral Divergence: Aerobic Performance in Low- and High-Density Forms of the Mormon Cricket. Physio.Biochem. Zool 82**:** 405-418

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Fullard, J.H., ter Hofstede, H.M., Ratcliffe, J.M., Pollack, G.S., Brigidi, G.S., Tinghitella, R.M., and Zuk, M. 2010. Release from bats: genetic distance and sensoribehavioural regression in the Pacific field cricket, *Teleogryllus oceanicus*. Naturwissenschaften 97:53-61.

Zuk, M., Stoehr, A.M. 2010. Sex Differences in Susceptibility to Infection: An Evolutionary Perspective. Pp 1-17 in: *Sex Hormones and Immunity to Infection*. Editors: Klein, S.L., Roberts, C. Springer-Verlag, Heidelberg, Germany.

Logue, D.M., I.O. Abiola, D. Rains, N.W. Bailey, [M. Zuk](http://rspb.royalsocietypublishing.org/search?author1=M.+Zuk&sortspec=date&submit=Submit) and W.H. Cade. 2010. Does signalling mitigate the cost of agonistic interactions? A test in a cricket that has lost its song. Proceedings of the Royal Society of London B 277: 2571-2575

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Hauber, M.E. and Zuk, M. 2010. Social influences on communication signals: from honesty to exploitation. Pp. 185-199 in: *Social Behaviour: Genes, Ecology and Evolution*, T. Székely, A.J. Moore and J. Komdeur, eds. Cambridge: Cambridge University Press.

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Tinghitella, R.M., Simmons, L.W., Beveridge, M., and Zuk, M. 2011. Island hopping introduces Polynesian field crickets to novel environments, genetic bottlenecks, and rapid evolution. Journal of Evolutionary Biology 24: 1199-1211

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populations of the Pacific field cricket: geographic variation in the
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**ARTICLES IN POPULAR MEDIA**

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Zuk, M. and Jones, S.D. 2020. COVID-19 is not your great-grandfather’s flu. Comparisons with 1918 are overblown. Los Angeles Times, April 19.

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Zuk, M. 2016. Humans are the not-so-innocent bystanders in the Zika mosquito's proliferation. Los Angeles Times, June 17.

Zuk, M. and Travisano, M. 2014. Microbes: Forget good and bad, but don't forget that they vastly outnumber us. Los Angeles Times, June 15.

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Zuk, M. and Houtman, A. 2011. Wholphins and Other Wonders of Bio for Biz Majors. The Chronicle of Higher Education, July 11.

Zuk, M. 2011. Animal webcams: days of their lives. Los Angeles Times, June 13.

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Zuk, M. 1995. Avian advantage (Sexual Selection and the Barn Swallow, by A.P. Moller). Science 267:548-549.

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Zuk, M. 1998. Sex, color and mate choice in guppies (by Anne Houde). Nature 392:36.

Zuk, M. and Patten, M.A. 2000. A poor-will in your living room (review of The evolution of avian breeding systems, by J.D. Ligon). TREE 15:214.

Zuk, M. and Gershman, S.N. 2000. A lab of one’s own (review of Has Feminism Changed Science? by Londa Schiebinger). BioScience 50:621-622.

Zuk, M. 2000. The boys don’t cheer (review of Why So Slow? by Virginia Valian). BioScience 50:1021-1022.

Zuk, M. 2001. Beyond the science wars (edited by Ullica Segerstrale). Endeavour 25:44.

Zuk, M. 2001. Sex appeal of a muscial insect (review of Katydids and Bush-Crickets: Reproductive behavior and evolution of the Tettigoniidae, by D.T. Gwynne). Nature 414:691-692.

Zuk, M. 2002. The evolution of agency and other essays, by K. Sterelny. Q. Rev. Biol. 77:176.

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Zuk, M. 2003. Making sense of the evolution of human behavior. (review of *Sense and nonsense: evolutionary perspectives on human behaviour*, by K. Laland and G. Brown.) Evolution 57:1451-1452.

Zuk, M. 2005. Vital harmonies: molecular biology and our shared humanity. Q. Rev. Biol. 80:237.

Zuk, M., Gershman, S.N., Lesser, K.J., Panhuis, T.M., Schmidt, T., and Tinghitella, R.M. 2006. (S*exual Conflict*, by G. Arnquist and L. Rowe). Q. Rev. Biol. 81:204-205.

Zuk, M. 2010. Mentally rotating gender (Review of *Delusions of Gender* and *Brain Storm*). Q. Rev. Biol. 86: 198-202.

Zuk, M. 2013. Human Exceptionalism (Review of *How We Do It*, by Robert Martin). Wall Street Journal, July 19.

Zuk, M. 2015. Nature’s Oracle, by Ulica Segerstrale. National Center for Science Education newsletter.

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Zuk, M. 2014. Evolutionary Mismatches: The State of Being Human Today (review of *The Story of the Human Body*, by Daniel Lieberman). Los Angeles Review of Books, January 13.

Zuk, M. and Heinen-Kay, J. 2015. Peering at private parts, for science (review of *Nature’s Nether Regions*, by Menno Schilthuizen). Trends in Ecology and Evolution 30(3): 130-131.

Zuk, M. and Wilson, M.L. 2015. Why humans prevail (review of *Sapiens*, by Yuval Noah Harari). Chronicle of Higher Education, April 10, B16.

Zuk, M. 2015. Little Itches (review of *Infested*, by Brook Borel). New York Times, April 19, BR21.

Zuk, M. 2017. Fox and Friends. (review of *How to Tame a Fox*, by Lee Dugatkin and Lyudmila Trut). New York Times, May 7, BR26.

Zuk, M. 2017. Squishy Sentience (review of *Other Minds*, by Peter Godfrey-Smith). Los Angeles Review of Books, August 1.

Zuk, M. 2017. Beautiful, Brainless and Dangerous (review of Spineless, by Juli Berwald). Wall Street Journal, December 2, C7.

Zuk, M. 2019. Review of *The Power of Plagues*, by Irwin W. Sherman. American Journal of Tropical Medicine and Hygiene 100: 480.

Zuk, M. 2019. ‘Wildhood’ Review: When Creatures Come of Age (review of *Wildhood*, by Barbara Natterson-Horowitz and Kathryn Bowers). Wall Street Journal, December 7.

Zuk, M. and Richardson, J. in press. Review of *The Evolution of Sex*, by Kevin Teather. Quarterly Review of Biology.

Zuk, M. in press. Review of *Birds, Sex and Beauty*,” by Matt Ridley. Times Literary Supplement.

## EDITED VOLUMES

Loye, J. and M. Zuk (eds). 1991. *Bird-parasite Interactions: Ecology, Evolution and Behaviour*. Oxford University Press.

## BOOKS

Zuk, M. 2002. *Sexual Selections: what we can and can’t learn about sex from animals*. University of California Press, Berkeley.

Zuk, M. 2007. *Riddled with Life: Friendly Worms, Ladybug Sex, and the Parasites That Make Us Who We Are*. Harcourt, Inc., New York.

Zuk, M. 2011. *Sex on Six Legs: Lessons on Life, Love and Language from the Insect World*. Houghton Mifflin Harcourt, New York.

Zuk, M. 2013. *Paleofantasy: What Evolution Really Tells Us About Sex, Diet, and How We Live*. W.W. Norton Inc., New York.

Zuk, M. and Simmons, L.W. 2018. *Sexual Selection: a Very Short Introduction*. Oxford University Press.

Zuk, M. 2022. *Dancing Cockatoos and the Dead Man Test: How Behavior Evolves and Why it Matters*. W.W. Norton Inc., New York.

**INVITED SEMINARS** (from last several years)

Acoustically-orienting Parasitoids and Cricket Hosts

October 2015: UNAM, Mexico City

October 2015: University of Utah, Salt Lake City

September 2016: Indiana University, Bloomington IN

March 2017: Keck Center for Behavioral Biology, Raleigh, North Carolina

October 2017: Harvard University, Cambridge MA

February 2018: Scripps Institution of Oceanography, San Diego, CA

March 2018: Princeton University, Princeton NJ

October 2018: University of Sydney, Sydney, Australia

January 2019: Otago University, Dunedin, New Zealand

November 2019: University of Texas, Austin TX

November 2020: Australian National University, Melbourne (via Zoom)

February 2021: Darwin Day featured speaker, Exeter University, UK (via Zoom)

The marmot in the middle: how ecology and politics are key to plague control

November 2017: Jacques Monod Conference, Roscoff, France: Open questions in disease ecology and evolution: from basic research to evolutionary medicine (invited keynote)

# Gender Bias and Science

November 2016: Norwegian University of Science and Technology, Trondheim, Norway

May 2017: SWEEET (Society for Women Entering Ecology and Evolution Today) conference, University of British Columbia, Vancouver, Canada (keynote speaker)

March 2018: Princeton University, Princeton NJ

September 2018: Department of Entomology, University of Minnesota

September 2018: Gender Equality Workshop, Norwegian University of Technology, Trondheim, Norway

January 2019: University of Otago, Dunedin, New Zealand

February 2022: BUAP, Puebla, Mexico (for Día Internacional de la Mujer y la Niña en la Ciencia 2022) (remote presentation)

Sex on Six Legs: lessons on life, love and language from the insect world

February 2017: SciCafe, American Museum of Natural History, New York

March 2017: MinneCollege (University of Minnesota), Scottsdale, AZ

Paleofantasy: What evolution really tells us about sex, diet and how we live

February 2016: Darwin Day, University of Oslo, Norway

April 2016: The President’s Forum for Critical Thought, Eastern Washington University, Spokane, WA

August 2016: Summer School, University of Jyväskylä, Finland

February 2017: Friends of the University of Minnesota Libraries lecture series, Minneapolis

February 2017: Warner Memorial Lecture, University of Wisconsin, LaCrosse

February 2018: Scripps Institution of Oceanography, San Diego, CA

April 2018: Sinauer Lecture, University of Massachusetts, Amherst, MA

October 2018: Murray Lecture, University of Sydney, Sydney, Australia

Models on the Runway

January 2016: American Society of Naturalists meeting (keynote lecture)

January 2016: Center for Evolution and Medicine, Arizona State University, Tempe AZ

Parasites: they’re not a bug, they’re a feature

September 2019: Does Hamilton Still Rule? His Continuing Influence in Science and Society, 50 Years Back and Beyond (Gruter Institute conference) Oxford, England

Predation and the evolution of sexual signals

January 2020: Gordon Research Conference on Predator-Prey Interactions, Ventura, California (keynote speaker)

**CONTRIBUTED PAPERS PRESENTED AT MEETINGS** (last several years)

March 2015: International Society for Evolution, Medicine and Public Health, Tempe, AZ (invited presentation)

June 2015: Evolution 2015, Guaruja, Brazil (American Society of Naturalists, Vice-President’s Symposium: Tropical Assumptions) – organized symposium and presented talk

January 2016: American Society of Naturalists, Asilomar, CA (E.O. Wilson Award lecture)

##### **sELECTED Outreach and public service**

May 2015: talk at TEDWomen, Monterey, CA (<http://www.ted.com/talks/marlene_zuk_what_we_learn_from_insects_kinky_sex_lives>)

October 2016: Master Naturalists, Minnetonka, MN

February 2017: SciCafe, American Museum of Natural History, New York City

December 2018: Petri Dish, Bell Museum, St Paul MN

June 2021: Firefly evening for the Wild Rivers Conservancy, Osceola, WI

2021 – 2022: cooperation with Wildstar Films for a series on America’s National Parks for National Geographic (featuring our research on lava crickets at Volcanoes National Park), with The Nature of Things on both the lava cricket and the silent cricket work, and with Passion Planet for a PBS series on animal evolution (featuring the silent crickets on Kauai)

2002-present: interviews for various radio and magazine outlets, including national NPR/APM shows such as Fresh Air and The Splendid Table; NPR stations in San Francisco, Pasadena, New York, Chicago and Berkeley; Minnesota Public Radio; Pacifica radio in New York; Canadian Broadcasting Corporation (Quirks & Quarks); Glamour, Esquire, the Advocate, Outside magazine, BBC World News, MORE magazine, New Scientist; guest blogger for “Well” (health blog on the New York Times website)

**PROFESSIONAL SERVICE** **AND EDITORIAL EXPERIENCE**

Member: American Association for the Advancement of Science, Animal Behavior Society, American Society of Naturalists, Orthopterists' Society, International Society for Behavioral Ecology, Sigma Xi, National Center for Science Education

Offices held:

 Treasurer, Animal Behavior Society, 1997-2000

 President, International Society for Behavioral Ecology (2004-2008)

 Council Member, Society for the Study of Evolution (2005-2008)

 Vice President, American Society of Naturalists (2013-2016)

Editor:

 Behavioral Ecology 2002 – 2006

 Advances in the Study of Behavior 2015 --

 Los Angeles Review of Books (contributing editor) 2011 –

Editorial Board member:

 Biology Letters 2010-2017

Associate Editor:

 Behavioral Ecology and Sociobiology 1994-1996

 The American Naturalist 1997 – 2001

 Evolution 2002

Reviewer for the following journals:

 American Naturalist, American Journal of Physiology, Animal Behaviour, The Auk, Behavioral Ecology, Behavioral Ecology and Sociobiology, Canadian Journal of Zoology, Ecological Entomology, Ecology, Ecology Letters, Ethology, Environmental Entomology, Evolution, Florida Entomologist, Functional Ecology, International Journal for Parasitology, Journal of Animal Ecology, Journal of Comparative Psychology, Journal of Experimental Biology, Journal of Evolutionary Biology, Nature, Oikos, Ostrich, Parasitology Today, PNAS, Proceedings of the Royal Society of London, Quarterly Review of Biology, Science, Scientific Reports, Trends in Ecology and Evolution

I have reviewed grant proposals for the National Science Foundation, the National Science and Engineering Research Council of Canada, the BBSRC, the Australian Research Council, the American Philosophical Society, the Swiss National Science Foundation, the Research Council of Norway, the National Geographic Society, the Polish Science Foundation, and the Animal Behavior Society

Service on grant review panels for the National Science Foundation (Animal Behavior, Evolution and Systematics) and on the Scientific Advisory Board for NESCent, the National Evolutionary Synthesis Center (2005-2008)

Service on Science Advisory Board for Centre of Excellence in Biological Interactions Research, Finland (2012 - 2017)

Service on Scientific Advisory Committee, Arizona State University Center for Evolution and Medicine (2015 – 2020)