

MARK KIRKPATRICK
Curriculum Vitae

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EDUCATION:

Harvard University, B.A., Magna cum Laude with Highest Honors in Biology, 1978
University of Washington, Ph.D. in Zoology, 1983

PROFESSIONAL EXPERIENCE:

Miller Postdoctoral Fellow, Museum of Vertebrate Zoology, U.C. Berkeley, 1983 - 1985
Assistant Professor of Zoology, University of Texas at Austin, 1985 - 1990
Associate Professor of Zoology, University of Texas at Austin, 1990 - 1994
Professor of Zoology, University of Texas at Austin, 1994 - 1998
T.S. Painter Centennial Professor in Genetics, University of Texas at Austin, 1998 - present

HONORS:

Young Investigators Award, American Society of Naturalists, 1986
Presidential Young Investigator, National Science Foundation, 1987 - 1992
Guggenheim Fellow, 1997 - 1998
Poste Rouge Fellow, National Center for Scientific Research (France), 1997 - 1998
American Society of Naturalists President's Award, 1998
College of Natural Sciences Award for Excellence in Teaching, 2002
Fellow of the American Academy of Arts and Sciences, 2008
Miller Visiting Professor, University of California at Berkeley, 2009

PROFESSIONAL SERVICE:

Associate Editor, *The American Naturalist*, 1990 - 1993
Associate Editor, *Theoretical Population Biology*, 1990 - 1993
Sewall Wright Award Committee, American Society of Naturalists, 1993
Officer Nominations Committee, Society for the Study of Evolution, 1993 - 1995
Associate Editor, *Genetics*, 1994 - 1997
Editorial Committee, *Annual Review of Ecology and Systematics*, 1996
Councilor, Society for the Study of Evolution, 2000 - 2002
National Science Foundation, Population Biology Panel, 2001, 2002
Search Committee for the editor of the *American Naturalist*, 2005

Councilor, European Society for the Study of Evolution, 2005 – 2009
 Editorial Board, *Annual Review of Ecology, Evolution, and Systematics*, 2006 – 2011
 Councilor, The American Genetics Association, 2007 – 2009
 Editorial Board, *Proceedings of the Royal Society of London B*, 2007 – present
 Events Committee chairperson, The American Genetics Association, 2008 – 2009
 Officer Nominations Committee, American Society of Naturalists, 2008 – 2011

INVITED SEMINARS

1983: University of California at Davis
 1984: University of Michigan, University of Texas at Austin, University of California at San Diego, University of Iowa, University of Chicago, University of California at Los Angeles, Bay Area Biosystematists
 1985: University of Edinburgh, University College London, University of Wisconsin
 1986: Rice University
 1987: State University of New York at Stony Brook, University of Wyoming
 1988: Oxford University, University of California at San Diego
 1989: Cornell University, University of California at Davis
 1990: Stanford University, University of Oklahoma, San Diego State University, Trinity University
 1991: Baylor University
 1992: University of Edinburgh, University of Chicago, University of Washington, University of Oregon
 1993: University of Kansas, University of Miami, Florida State University, University of Nevada at Las Vegas
 1994: University of Montpellier, University of Kentucky, University of Edinburgh, University of Missouri, University of Illinois, University of California at Santa Barbara, Michigan State University, University of Toronto, The Royal Ontario Museum
 1995: Oxford University, University of Sussex, University College London, Uppsala University, University of Paris, University of Montpellier, University of Edinburgh, University of Minnesota, McGill University
 1996: University of Chicago, University of Georgia, University of Montpellier
 1997: Duke University, University of Edinburgh, University of Montpellier
 1998: University of Basel, University of Lausanne, University of Montpellier, University of Grenoble, University of Lille, University of Paris VI
 1999: University of British Columbia, University of Montpellier, University of Washington
 2000: University of Rochester, Texas A&M University, University of North Carolina, University of Kansas
 2001: University of Vigo (Spain), Washington State University, University of Maryland, University of Zurich (Switzerland), University of Edinburgh
 2002: University of Minnesota

- 2003: Oregon State University, Brown University, New Mexico State University, University of St. Andrews (Scotland), University of Edinburgh (Scotland), University College London (England), University of Leeds (England)
- 2004: University of Montpellier (France), University of Paris, INRA Gif-Sur-Yvette
- 2005: University of Oklahoma, University of British Columbia (graduate student symposium invitee), University of Bern (Switzerland)
- 2006: Harvard University, University of Melbourne (Australia), University of Queensland (Australia), University of New South Wales (Australia), University of New England (Australia), University of Iowa
- 2007: University of North Carolina, University of Notre Dame, University of Zurich (Switzerland), University of Basel (Switzerland), University of California Berkeley, Santa Fe Institute
- 2008: Ecole Normal Superior Lyon (France), University of Lausanne (Switzerland), University of Paris (France)
- 2009: University of Toronto, University of California Berkeley, University of California Davis, University of California Santa Cruz
- 2010: University of Houston, University of Chicago, University of Montpellier, Duke University
- 2011: National Institute for Mathematical and Biological Synthesis, University of California at Berkeley, Trinity University, Centro de Investigaciones Biológicas del Noroeste (Mexico)

INVITED SYMPOSIA:

- 1984: Society for the Study of Evolution and the American Society of Naturalists, Crested Butte
- 1985: Society for the Study of Evolution and the American Society of Naturalists, Chicago
- 1986: American Society of Naturalists, Asilomar
Dahlem Konferenzen, "Sexual Selection: Testing the Alternatives", Berlin
- 1987: Second International Conference on Quantitative Genetics, Raleigh
The Dynamics of Size-Structured Populations, University of Lund, Sweden
Computational Approaches to Evolutionary Biology, Santa Fe Institute
- 1988: Sixteenth International Congress of Genetics, Toronto
Second International Conference on Behavioral Ecology, Vancouver
- 1990: International Congress of Systematic and Evolutionary Biology, Maryland
- 1991: Management of Exploited Biological Resources, Julich, Germany
Evolution of Haploid and Diploid Genetic Systems, Madison
- 1993: Society for the Study of Evolution and the American Society of Naturalists, Snowbird: Symposium organizer for "The Evolution of Genetic Life Cycles"
American Society of Ichthyologists and Herpetologists, Austin
Mid-Western Conference on Population Biology, Lawrence
- 1995: European Society of Evolutionary Biology, Edinburgh
- 1996: Allerton Conference: Genetic Analysis of Economically Important Traits of Livestock, Champaign-Urbana

- 1997: Population Genetics Group, Nottingham
- 1998: Local Adaptation and Spatial Heterogeneity in Host Parasite Interactions, Paris
- 1999: Society for the Study of Evolution, Madison
California Population and Ecological Genetics meeting, Bodega
- 2000: Society for the Study of Evolution, Bloomington
- 2001: Guarda Workshop in Evolutionary Biology, Switzerland
Speciation and Phylogeny, British Museum, London UK
University of Lund Biology Symposium, Sweden
- 2002: Extinction Thresholds Symposium, Helsinki Finland
Distributions, Diversity, and Evolutionary Dynamics, University of Virginia
7th World Congress of Genetics Applied to Livestock Production, Montpellier France
- 2003: European Society for Evolutionary Biology, Leeds UK
- 2005: Society for the Study of Evolution, Fairbanks
European Society for Evolutionary Biology, Warsaw Poland
- 2006: Mathematical Biosciences Institute (workshop co-organizer)
- 2007: Guarda Workshop in Evolutionary Biology, Switzerland
Poeciliids: A New Model System for Evolutionary Genomics, NESCent, Durham
Third International Congress of Quantitative Genetics, Hangzhou China
Tinbergen Lecture, Association for the Study of Animal Behaviour, London UK
- 2008: Gordon Conference: Genes and Behavior, Il Ciocco Italy
Chromosome Inversions: From Theory to Malaria Vectors, Montpellier France
- 2009: The Evolution of Sex Chromosomes, La Sage Switzerland
Workshop in Evolutionary Biology, La Fouly Switzerland
Speciation, Groningen Netherlands
Evolution Since Darwin, Stony Brook USA
- 2010: Sex Chromosome Evolution, National Center for Evolutionary Synthesis
- 2011: Evolutionary Rescue, Montpellier France

REVIEWER FOR:

American Naturalist, Animal Behaviour, Auk, Australian Research Council, Behavior Genetics, Behavioral Ecology, Behavioral Ecology and Sociobiology, Biological Journal of the Linnean Society, Conservation Biology, Copeia, Developmental Genetics, Ecology Letters, Ethology Ecology & Evolution, Evolution, Finnish Academy of Science, Genetical Research, Genetics, Heredity, Journal of Ecology, Journal of Evolutionary Biology, Journal of Heredity, Journal of Theoretical Biology, Molecular Biology and Evolution, National Science and Engineering Research Council (Canada), National Science Foundation, National Geographic, Natural Environment Research Council (Britain), Nature, Netherlands Organization for Scientific Research, Oxford University Press, Paleobiology, Physical Review E, PLoS, PLoS Computational Biology, PLoS Genetics, Proceedings of the National Academy of Science U.S.A., Proceedings of the Royal Society, Quarterly Review of Biology, Science, Sinauer Associates, Swiss National Science Foundation, Theoretical Population Biology, Trends in Ecology and Evolution

EXTERNAL GRANTS RECEIVED:

- "Genetic models of infinite-dimensional characters", National Science Foundation, 1986–1989
 Presidential Young Investigator Award, National Science Foundation, 1987–1992
 "Genetic models of natural populations", National Science Foundation, 1991–1992
 Shannon Award, National Institutes of Health, 1991–1994
 "Quantitative models of mating preference evolution", National Science Foundation, 1994–1998
 Burroughs-Wellcome Travel Grant, 1995
 Guggenheim Fellowship, 1997–1998
 "Genetic models of speciation by reinforcement", National Science Foundation, 1999–2004
 "Theoretical analysis of speciation: a general framework" (with N. Barton), National Environmental Research Council (UK), 2003–2005
 "Function-valued traits in natural populations", National Science Foundation, 2003–2008
 "Chromosome evolution: models and tests", National Science Foundation, 2008–2012

PUBLICATIONS:

1979. Kirkpatrick, M., and R.K. Selander. Genetics of speciation in lake whitefishes in the Allegash Basin. *Evolution* 33: 478–485.
 1981. Kirkpatrick, M. Spatial and age dependent patterns of growth in New England black birch. *American Journal of Botany* 68: 535–543.
 1982a. Kirkpatrick, M. Sexual selection and the evolution of female choice. *Evolution* 36: 1–12.
 1982b. Kirkpatrick, M. Quantum evolution and punctuated equilibria in continuous genetic characters. *American Naturalist* 119: 833–843.
 1984a. Kirkpatrick, M. Revenge of the ugly duckling. Review of P. Bateson, ed. *Mate Choice*. Cambridge University Press, Cambridge. *Evolution* 38: 704–706.
 1984b. Kirkpatrick, M. Demographic models based on size, not age, for organisms with indeterminate growth. *Ecology* 65: 1874–1884.
 1985. Kirkpatrick, M. Evolution of female mate choice and male parental investment in polygynous species: the demise of the "sexy son". *American Naturalist* 125: 788–810.
 1986a. Kirkpatrick, M. The handicap theory of sexual selection does not work. *American Naturalist* 127: 222–240.
 1986b. Kirkpatrick, M. Sexual selection and cycling parasites: A simulation study of Hamilton's hypothesis. *Journal of Theoretical Biology* 119: 263–271.
 1987a. Kirkpatrick, M., and J.J. Bull. Sex ratio selection with migration: Does Fisher's result hold? *Evolution* 41: 218–221.
 1987b. Slatkin, M., and M. Kirkpatrick. Extrapolating quantitative genetic theory to evolutionary problems. Pages 283–293 in M.D. Huttie (ed.), *The Evolutionary Genetics of Invertebrate Behavior*. Plenum, New York.
 1987c. Kirkpatrick, M. Sexual selection by female choice in polygynous animals. *Annual Review of Ecology and Systematics* 18: 43–70.

- 1987d. Kirkpatrick, M. The evolutionary forces acting on female mating preferences in polygynous animals. Pages 67–82 in J.W. Bradbury and M.B. Andersson (eds.), *Sexual Selection: Testing the Alternatives*. Dahlem Conference Proceedings. John Wiley, Chichester.
- 1987e. Heisler, L., and eleven others. The evolution of mating preferences and attractive traits. Group report. Pages 96-118 in J.W. Bradbury and M.B. Andersson (eds.), *Sexual Selection: Testing the Alternatives*. Dahlem Conference Proceedings. John Wiley, Chichester.
- 1988a. Kirkpatrick, M. Limits on adaptation. Review of V. Loeschcke (ed.), *Genetic Constraints on Adaptive Evolution*. Springer-Verlag, Berlin. *Science* 240: 342.
- 1988b. Price, T., M. Kirkpatrick, and S.J. Arnold. Evolution of breeding date and sexual selection in monogamous birds. *Science* 240: 798-799.
- 1988c. Lande, R., and M. Kirkpatrick. Ecological speciation by sexual selection. *Journal of Theoretical Biology* 133: 85-98.
- 1988d. Kirkpatrick, M. Consistency in genetic models of the sexy son: reply to Curtsinger and Heisler. *American Naturalist* 132: 609-610.
- 1988e. Kirkpatrick, M. The evolution of size in size-structured populations. Pages 13-28 in B. Ebenman and L. Persson (eds.), *The Dynamics of Size-Structured Populations*. Springer-Verlag, Heidelberg.
- 1989a. Kirkpatrick, M. Sexual selection: Is bigger always better? (News & Views commentary.) *Nature* 337: 116-117.
- 1989b. Kirkpatrick, M., and R. Lande. The evolution of maternal characters. *Evolution* 43: 485-503. Errata: *Evolution* 46: 284.
- 1989c. Kirkpatrick, M., and C.D. Jenkins. Genetic segregation and the maintenance of sexual reproduction. *Nature* 339: 300-301. Replies to Hedrick and Whittam, and Dunbrack. *Nature* 342: 232.
- 1989d. Kirkpatrick, M., and N. Heckman. A quantitative-genetic model for growth, shape, reaction norms, and other infinite-dimensional characters. *Journal of Mathematical Biology* 27: 429-450.
- 1989e. Kirkpatrick, M., and D. Lofsvold. The evolution of growth trajectories and other complex quantitative characters. *Genome* 31: 778-783.
- 1990a. Kirkpatrick, M., T. Price, and S.J. Arnold. The Darwin-Fisher theory of sexual selection in monogamous birds. *Evolution* 44: 180-193.
- 1990b. Kirkpatrick, M., D. Lofsvold, and M. Bulmer. Analysis of the inheritance, selection, and evolution of growth trajectories. *Genetics* 124: 979-993.
- 1990c. Lande, R., and M. Kirkpatrick. Selection response in traits with maternal inheritance. *Genetical Research* 55: 189-197.
- 1991a. Kirkpatrick, M., and M.J. Ryan. The evolution of mating preferences and the paradox of the lek. *Nature* 350: 33-38.
- 1991b. Willis, J., J. Coyne, and M. Kirkpatrick. Can one predict the evolution of quantitative characters without genetics? *Evolution* 45: 441-444.
- 1992a. Kirkpatrick, M. Direct selection of female mating preferences: comments on Grafen's models. *Journal of Theoretical Biology* 154: 127-129.
- 1992b. Gomulkiewicz, R., and M. Kirkpatrick. Quantitative genetics and the evolution of reaction norms. *Evolution* 46: 390-411.

- 1992c. Kirkpatrick, M. Avian affairs. (Review of T.R. Birkhead and A.P. Møller, *Sperm Competition in Birds: Evolutionary Causes and Consequences*. Academic Press, London.) *Nature* 357: 30.
- 1992d. Kirkpatrick, M., and D. Lofsvold. Measuring selection and constraint in the evolution of growth. *Evolution* 46: 954-971.
- 1993a. Kirkpatrick, M. Evolution of size and growth in fisheries and other harvested natural populations. Pages 145-154 in K. Stokes, J.M. McGlade, and R. Law (eds.), *The Exploitation of Evolving Resources*. Lecture Notes in Biomathematics 99. Springer-Verlag, Berlin.
- 1993b. Kirkpatrick, M., and M. Slatkin. Searching for evolutionary patterns in the shape of a phylogenetic tree. *Evolution* 47: 1171-1181.
- 1994a. Kirkpatrick, M. (ed.) *The Evolution of Haploid-Diploid Life Cycles*. Lectures on Mathematics in the Life Sciences 25, American Mathematical Society, Providence. 134 pp.
- 1994b. Jenkins, C.D., and M. Kirkpatrick. Deleterious mutation and ecological selection in the evolution of life cycles. Pages 53-68 in M. Kirkpatrick (ed.), *The Evolution of Haploid-Diploid Life Cycles*. Lectures on Mathematics in the Life Sciences 25, American Mathematical Society, Providence.
- 1994c. Kirkpatrick, M., and L.A. Dugatkin. Sexual selection and the effects of copying mate choice. *Behavioral Ecology and Sociobiology* 34: 443-450.
- 1994d. Kirkpatrick, M. A field guide to quantitative genetics. (Review of C.R.B. Boake, *Quantitative Genetics Studies of Behavioral Evolution*. University of Chicago Press, Chicago.) *Trends in Ecology and Evolution* 9: 406.
- 1994e. Kirkpatrick, M., W.G. Hill, and R. Thompson. Estimating the covariance structure of traits during growth and aging, illustrated with lactation in dairy cattle. *Genetical Research* 64: 57-69.
- 1994f. Ryan, M., and M. Kirkpatrick. Sexual selection. *Discovery* 13: 29-33.
- 1994g. Kirkpatrick, M., and G.G. Rosenthal. Animal behaviour: Symmetry without fear. (News & Views commentary.) *Nature* 372: 134-135.
- 1995a. Kirkpatrick, M. Review of M. Andersson, *Sexual Selection*. Princeton University Press, Princeton. *Quarterly Review of Biology* 70: 77-78.
- 1995b. Jenkins, C.D., and M. Kirkpatrick. Deleterious mutation and the evolution of genetic life cycles. *Evolution* 49: 512-520.
- 1995c. Kirkpatrick, M., and N. Barton. Sexual selection: Déjà vu all over again. (News & Views commentary.) *Nature* 377: 388-389.
- 1995d. Kirkpatrick, M. *Population Genetics, Molecular Evolution, and the Neutral Theory: Selected Papers of Motoo Kimura*. Edited by N. Takahata. (Book review.) *Genetical Research* 66: 179-180.
- 1996a. Huelsenbeck, J.P., and M. Kirkpatrick. Do phylogenetic methods produce trees with biased shapes? *Evolution* 50: 1418-1424.
- 1996b. Kirkpatrick, M. Genes and adaptation: a pocket guide to the theory. Pages 125-146 in M.R. Rose and G.V. Lauder (eds.), *Evolutionary Biology of Adaptation*. Academic Press, Orlando.
- 1996c. Servedio, M.R., and M. Kirkpatrick. Mate choice copying can evolve without a cost to choice. *American Naturalist* 148: 848-867.

- 1996d. Kirkpatrick, M. Good genes and direct selection in the evolution of mating preferences. *Evolution* 50: 2125-2140.
- 1997a. Kirkpatrick, M., and N.H. Barton. Evolution of mating preferences for male genetic quality. *Proceedings of the National Academy of Sciences USA* 94: 1282-1286.
- 1997b. García-Ramos, G., and M. Kirkpatrick. Genetic models of rapid evolutionary divergence in peripheral populations. *Evolution* 51: 21-28.
- 1997c. Kirkpatrick, M., and N.H. Barton. Evolution of a species' range. *American Naturalist* 150: 1-23.
- 1997d. Kirkpatrick, M. Genetic improvement of livestock growth using infinite-dimensional analysis. *Animal Biotechnology* 8: 55-62.
- 1997e. Servedio, M.R., and M. Kirkpatrick. The effects of gene flow on reinforcement. *Evolution* 51: 1764-1772.
1998. Kirkpatrick, M., and M. Servedio. The reinforcement of mating preferences on an island. *Genetics* 151: 865-884.
1999. Kirkpatrick, M., and T. Bataillon. Artificial selection on phenotypically plastic traits. *Genetical Research* 74: 265-270.
- 2000a. Kirkpatrick, M., and P. Jarne. The effects of a bottleneck on inbreeding depression and the genetic load. *American Naturalist* 155: 154-167.
- 2000b. Bataillon, T., and M. Kirkpatrick. Inbreeding depression due to mildly deleterious mutations in finite populations: size does matter. *Genetical Research* 75: 75-82.
- 2000c. Kirkpatrick, M. Reinforcement and divergence under assortative mating. *Proceedings of the Royal Society of London B* 267: 1649-1655.
- 2000d. Kirkpatrick, M. Fish found *in flagrante delicto*. (News & Views commentary) *Nature* 408: 298-299.
- 2000e. Hall, D.W., M. Kirkpatrick, and B. West. Runaway sexual selection when female preferences are directly selected. *Evolution* 54: 1862-1869.
- 2001a. Kirkpatrick, M. Reinforcement during ecological speciation. *Proceedings of the Royal Society of London B* 268: 1259-1263.
- 2001b. Ronce, O., and M. Kirkpatrick. When sources become sinks: migrational meltdown in heterogeneous habitats. *Evolution* 55: 1520-1531.
- 2002a. Ebert, D., C. Haag, M. Kirkpatrick, M. Riek, J.W. Hottinger, and V.I. Pajunen. Outbreeding confers a selective advantage to immigrant genes in a metapopulation. *Science* 295: 485-488.
- 2002b. Kirkpatrick, M., and V. Ravigné. Speciation by natural and sexual selection: Models and experiments. *American Naturalist* 159: S22-S35.
- 2002c. Kirkpatrick, M., T. Johnson, and N. Barton. General models of multilocus evolution. *Genetics* 161: 1727-1750.
- 2002d. Kirkpatrick, M. Artificial selection on age-dependent traits. *Proceedings of the 7th World Congress of Genetics Applied to Livestock Production*. (Published in CD)
- 2003a. Nuismer, S.L., and M. Kirkpatrick. Host gene flow and the coevolution of parasite range. *Evolution* 57: 1746-1754.
- 2003b. Tsitronis, A., M. Kirkpatrick, and D.A. Levin. A model for chloroplast capture. *Evolution* 57: 1776-1782.

- 2004a. Lemmon, A., C. Smadja, and M. Kirkpatrick. Reproductive character displacement is not the only possible outcome of reinforcement. *Journal of Evolutionary Biology* 17: 177-183.
- 2004b. Kirkpatrick, M., and D.W. Hall. Male-biased mutation, sex linkage, and the rate of adaptive evolution. *Evolution* 58: 437-440.
- 2004c. Kirkpatrick, M., and D.W. Hall. Sexual selection and sex linkage. *Evolution* 58: 683-691.
- 2004d. Kirkpatrick, M., and S.L. Nuismer. Sexual selection can constrain sympatric speciation. *Proceedings of the Royal Society of London B* 271: 687-693.
- 2004e. Joseph, S., and M. Kirkpatrick. Haploid selection in animals. *Trends in Ecology and Evolution* 19: 592-597.
- 2004f. Kirkpatrick, M., and K. Meyer. Direct estimation of genetic principal components: Simplified analysis of complex phenotypes. *Genetics* 168: 2295-2306.
- 2005a. Meyer, K., and M. Kirkpatrick. Restricted maximum likelihood estimation of genetic principal components and smoothed covariance matrices. *Genetics, Selection, and Evolution* 37: 1-30.
- 2005b. Arnqvist, G., and M. Kirkpatrick. The evolution of infidelity in socially monogamous passerines: the strength of direct and indirect selection on extra-pair copulation behavior in females. *American Naturalist* 165: S26-S37.
- 2005c. Meyer, K., and M. Kirkpatrick. Up hill, down dale: the quantitative genetics of curvaceous traits. *Phil. Trans. R. Soc. B* 360: 1443-1455.
- 2005d. Kirkpatrick, M., and F. Rousset. Wright meets AD: Not all landscapes are adaptive. *Journal of Evolutionary Biology* 18: 1166-1169.
- 2006a. Mank, J.E., D.W. Hall, M. Kirkpatrick, and J.C. Avise. Sex chromosomes and male ornaments: a comparative evaluation in ray-finned fishes. *Proceedings of the Royal Society of London B* 273: 233-236.
- 2006b. Kirkpatrick, M., and N. Barton. Chromosome inversions, local adaptation, and speciation. *Genetics* 173: 419-434.
- 2006c. Kirkpatrick, M., A.S. Rand, and M. Ryan. Mate choice rules in animals. *Animal Behaviour* 71: 1215-1225.
- 2006d. Hall, D.W., and M. Kirkpatrick. Reinforcement and sex linkage. *Evolution* 60: 908-921.
- 2006e. Lemmon, A.R., and M. Kirkpatrick. Reinforcement and the genetics of hybrid incompatibilities. *Genetics* 173: 1145-1155.
- 2006f. Nosil, P., B.J. Crespi, C.P. Sandoval, and M. Kirkpatrick. Migration and the genetic covariance between habitat choice and performance. *American Naturalist* 167: E66-E78.
- 2007a. Ryan, M.J., K.L. Akre, and M. Kirkpatrick. Mate choice. *Current Biology* 17: R313-R316.
- 2007b. Arnqvist, G., and M. Kirkpatrick. The evolution of infidelity in socially monogamous passerines revisited: A reply to Griffith. *American Naturalist* 169: 282-283.
- 2007c. Brommer, J.E., M. Kirkpatrick, A. Avarnström, and L. Gustafsson. The intersexual genetic correlation for lifetime fitness in the wild and its implications for sexual selection. *PLoS ONE* 2: e744 (6 pages).

- 2007d. Meyer, K., and M. Kirkpatrick. A note on bias in reduced rank estimates of covariance matrices. *Proceedings of the Association for the Advancement of Animal Breeding and Genetics* 17: 154-157.
- 2007e. van Doorn, G.S., and M. Kirkpatrick. Turnover of sex chromosomes induced by sexual conflict. *Nature* 449: 909-912.
- 2008a. de Cara, M.A.R., N.H. Barton, and M. Kirkpatrick. A model for the evolution of assortative mating. *American Naturalist* 171: 580-596.
- 2008b. Joseph, S.B., and M. Kirkpatrick. Effects of the [PSI⁺] prion on rates of adaptation in yeast. *Journal of Evolutionary Biology* 21: 773-780.
- 2008c. Kirkpatrick, M., and T. Price. Sensory ecology: Seeing red doesn't get you blue. (News & Views commentary). *Nature* 455: 601-602.
- 2008d. Ryan, M.J., K.L. Akre, and M. Kirkpatrick. Cognitive mate choice. Pages 137-155 in R. Dukas and J. Ratcliffe (eds.), *Cognitive Ecology: The Evolutionary Ecology of Learning, Memory, and Information Use*. University of Chicago Press.
- 2008e. Meyer, K., and M. Kirkpatrick. Perils of parsimony: properties of reduced rank estimates of genetic covariance matrices. *Genetics* 180: 1153-1166.
- 2009a. Price, T.D., and M. Kirkpatrick. Evolutionarily stable range limits set by interspecific competition. *Proceedings of the Royal Society of London, B* 276: 1429-1434.
- 2009b. Kirkpatrick, M. Patterns of quantitative genetic variation in multiple dimensions. *Genetica* 136: 271-284.
- 2010a. Kirkpatrick, M., R.F. Guerrero, and S.V. Scarpino. Patterns of neutral genetic variation on recombining sex chromosomes. *Genetics* 184: 1141-1152.
- 2010b. Meyer, K., and M. Kirkpatrick. Better estimates of genetic covariance matrices by "bending" using penalized maximum likelihood. *Genetics* 185: 1097-1110.
- 2010c. Kirkpatrick, M. Rates of adaptation: Why is Darwin's machine so slow? Pages 177-196 in M. Bell, D. Futuyma, W. Eanes, and J.S. Levinton (eds.), *Evolution Since Darwin: The First 150 Years*. Sinauer, Sunderland MA.
- 2010d. Kirkpatrick, M. How and why chromosome inversions evolve. *PLoS Biology* 8: e1000501.
- 2010e. van Doorn, G.S., and M. Kirkpatrick. Transitions between male and female heterogamety caused by sex-antagonistic selection. *Genetics* 186: 629-645.
- 2010f. Hill, W.G., and M. Kirkpatrick. What animal breeding has taught us about evolution. *Annual Review of Ecology, Evolution, and Systematics* 41: 1-20.
- 2011a. Behrman, K.D., and M. Kirkpatrick. Species range expansion by beneficial mutations. *Journal of Evolutionary Biology* 24: 665-675.
- 2011b. Keightley, P.D., L. Eöry, D.L. Halligan, and M. Kirkpatrick. Inference of mutation parameters and selective constraint in mammalian coding sequences by approximate Bayesian computation. *Genetics* 187: 1153-1161.
- 2011c. Bachrog, D., M. Kirkpatrick, J.E. Mank, S.F. McDaniel, W. Rice, and N. Valenzuela. Are all sex chromosomes created equal? *Trends in Genetics* 27: 350-357.
- 2011d. Guerrero, R.F., F. Rousset, and M. Kirkpatrick. Coalescent patterns for chromosome inversions in divergent populations. *Philosophical Transactions of the Royal Society B* 367: 430-438.

- 2011e. The Marie Curie Speciation Network (with 27 authors). What do we need to know about speciation? *Trends in Ecology and Evolution* 27: 27-39.
- 2012a. Bank, C., J. Hermisson, and M. Kirkpatrick. Can reinforcement complete speciation? *Evolution* (in press).
- 2012b. Duputié, A., F. Massol, I. Chuine, M. Kirkpatrick, and O. Ronce. Species range shifts by multivariate adaptation to a changing environment. *Ecology Letters* (in press).
- 2012c. Slatkin, M., and M. Kirkpatrick. Using known QTLs to detect directional epistatic interactions. *Genetic Research* (in press).
- 2012d. Bolnick, D.I., and M. Kirkpatrick. The relationship between intraspecific assortative mating and reproductive isolation between divergent populations. *Current Zoology* (in press).
- 2012e. Peischl, S., E. Koch, R. Guerrero, and M. Kirkpatrick. A sequential coalescent algorithm for chromosomal inversions. *Heredity* (submitted).
- 2012f. Ayala, D., R.F. Guerrero, and M. Kirkpatrick. A chromosome inversion acts as a magic trait for speciation in a malaria mosquito. *Evolution* (submitted).
- 2012g. Peischl, S., and M. Kirkpatrick. Establishment of new mutations in changing environments. *Genetics* (submitted).
- 2012h. Kirkpatrick, M., and S. Peischl. Evolutionary rescue by beneficial mutations in changing environments. *Philosophical Transactions of the Royal Society B* (submitted).