

References

- [1] Arka Pal et al. “Genealogical Analysis of Replicate Flower Colour Hybrid Zones in *Antirrhinum*”. In: *Molecular Ecology* n/a.n/a (2025), e70067.
- [2] Nicholas Barton. “Limits to species’ range: the tension between local and global adaptation”. In: *Journal of Evolutionary Biology* 37.6 (Apr. 2024), pp. 605–615.
- [3] Nicholas H Barton, Alison M Etheridge, and Amandine Véber. “The infinitesimal model with dominance”. In: *Genetics* 225.2 (July 2023), iyad133.
- [4] Parvathy Surendranadh et al. “Effects of fine-scale population structure on the distribution of heterozygosity in a long-term study of *Antirrhinum majus*”. In: *Genetics* 221.3 (May 2022).
- [5] Anja M. Westram et al. “Inversions and parallel evolution”. In: *Philosophical Transactions of the Royal Society B: Biological Sciences* 377.1856 (2022), p. 20210203.
- [6] Anja M. Westram et al. “What is reproductive isolation?” In: *Journal of Evolutionary Biology* 35.9 (Sept. 2022), pp. 1143–1164.
- [7] Louise Arathoon et al. “Effects of fine-scale population structure on inbreeding in a long-term study of snapdragons (*Antirrhinum majus*)”. In: *bioRxiv* (2021).
- [8] Guy Sella and Nicholas H. Barton. “Thinking About the Evolution of Complex Traits in the Era of Genome-Wide Association Studies”. In: *Annual Review of Genomics and Human Genetics* 20.1 (2019), null.
- [9] N H Barton and A M Etheridge. “Establishment in a new habitat by polygenic adaptation”. In: *Theor Popul Biol* 122 (July 2018), pp. 110–127.
- [10] H Ringbauer et al. “Estimating Barriers to Gene Flow from Distorted Isolation-by-Distance Patterns”. In: *Genetics* 208.3 (Mar. 2018), pp. 1231–1245.
- [11] N H Barton, A M Etheridge, and A Véber. “The infinitesimal model: Definition, derivation, and implications”. In: *Theor Popul Biol* 118 (Dec. 2017), pp. 50–73.
- [12] H Ringbauer, G Coop, and N H Barton. “Inferring Recent Demography from Isolation by Distance of Long Shared Sequence Blocks”. In: *Genetics* 205.3 (Mar. 2017), pp. 1335–1351.
- [13] J. Kelleher et al. “Spread of pedigree versus genetic ancestry in spatially distributed populations”. In: *Theoretical Population Biology* 108 (Apr. 2016), pp. 1–12.
- [14] Konrad Lohse et al. “Efficient Strategies for Calculating Blockwise Likelihoods Under the Coalescent”. In: *Genetics* 202.2 (2016), pp. 775–786.
- [15] Tiago Paixão and Nicholas H. Barton. “The effect of gene interactions on the long-term response to selection”. In: *Proceedings of the National Academy of Sciences* 113.16 (2016), pp. 4422–4427.
- [16] N. H. Barton and M. R. Servedio. “The interpretation of selection coefficients”. In: *Evolution* 69.5 (May 2015), pp. 1101–1112.
- [17] Jitka Polechová and Nicholas H. Barton. “Limits to adaptation along environmental gradients”. In: *Proceedings of the National Academy of Sciences* 112.20 (2015), pp. 6401–6406.
- [18] Murat Tuğrul et al. “Dynamics of Transcription Factor Binding Site Evolution”. In: *PLOS Genetics* 11.11 (Nov. 2015), pp. 1–28.
- [19] Jack Hearn et al. “Likelihood-based inference of population history from low-coverage de novo genome assemblies”. In: *Molecular Ecology* 23.1 (2014), pp. 198–211.
- [20] Harold P. de Vladar and Nick Barton. “Stability and Response of Polygenic Traits to Stabilizing Selection and Mutation”. In: *Genetics* 197.2 (Apr. 2014), pp. 749–767.
- [21] N H Barton, A M Etheridge, and A Véber. “Modelling evolution in a spatial continuum”. In: *Journal of Statistical Mechanics: Theory and Experiment* 2013.01 (2013), P01002.

- [22] N.H. Barton et al. “Genetic hitchhiking in spatially extended populations”. In: *Theoretical Population Biology* 87 (2013), pp. 75–89.
- [23] N.H. Barton et al. “Inference in two dimensions: Allele frequencies versus lengths of shared sequence blocks”. In: *Theoretical Population Biology* 87 (2013), pp. 105–119.
- [24] Nicholas H. Barton and Alison M. Etheridge. “The Relation Between Reproductive Value and Genetic Contribution”. In: *Genetics* 188.4 (May 2011), pp. 953–973.
- [25] K Lohse, R J Harrison, and N H Barton. “A general method for calculating likelihoods under the coalescent process”. In: *Genetics* 189.3 (Nov. 2011), pp. 977–987.
- [26] J Polechová and N Barton. “Genetic drift widens the expected cline but narrows the expected cline width”. In: *Genetics* 189.1 (Sept. 2011), pp. 227–235.
- [27] N. H. Barton. “What role does natural selection play in speciation?” In: *Philosophical Transactions of the Royal Society of London B: Biological Sciences* 365.1547 (2010), pp. 1825–1840.
- [28] Nicholas H. Barton, Jerome Kelleher, and Alison M. Etheridge. “A new model for extinction and recolonization in two dimensions: Quantifying phylogeography”. In: *Evolution* 64.9 (Sept. 2010), pp. 2701–2715.
- [29] Nick Barton, Alison Etheridge, and Amandine Véber. “A new model for evolution in a spatial continuum”. In: *Electronic Journal of Probability* 15 (2010), pp. 162–216.
- [30] Ulises Rosas et al. “Cryptic Variation between Species and the Basis of Hybrid Performance”. In: *PLOS Biology* 8.7 (July 2010), pp. 1–12.
- [31] N H Barton and J B Coe. “On the application of statistical physics to evolutionary biology”. In: *J Theor Biol* 259.2 (July 2009), pp. 317–324.
- [32] N. H. Barton and H. P. de Vlader. “Statistical Mechanics and the Evolution of Polygenic Quantitative Traits”. In: *Genetics* 181.3 (Dec. 2008), pp. 997–1011.
- [33] N H Barton. “Identity and coalescence in structured populations: a commentary on ‘Inbreeding coefficients and coalescence times’ by Montgomery Slatkin”. In: *Genet Res* 89.5-6 (Dec. 2007), pp. 475–477.
- [34] Mark Kirkpatrick and Nick Barton. “Chromosome Inversions, Local Adaptation and Speciation”. In: *Genetics* 173.1 (May 2006), pp. 419–434.
- [35] N. H. Barton and J. Polechová. “The limitations of adaptive dynamics as a model of evolution”. In: *Journal of Evolutionary Biology* 18.5 (2005), pp. 1186–1190.
- [36] T Johnson and N Barton. “Theoretical models of selection and mutation on quantitative traits”. In: *Philos Trans R Soc Lond B Biol Sci* 360.1459 (July 2005), pp. 1411–1425.
- [37] N H Barton and A M Etheridge. “The effect of selection on genealogies”. In: *Genetics* 166.2 (Feb. 2004), pp. 1115–1131.
- [38] N. H. Barton, A. M. Etheridge, and A. K. Sturm. “Coalescence in a random background”. In: *Ann. Appl. Probab.* 14.2 (2004), pp. 754–785.
- [39] S. J. E. Baird, N. H. Barton, and A. M. Etheridge. “The distribution of surviving blocks of an ancestral genome”. In: *Theoretical Population Biology* 64.4 (2003), pp. 451–471.
- [40] Brian Charlesworth, Deborah Charlesworth, and Nicholas H. Barton. “The Effects of Genetic and Geographic Structure on Neutral Variation”. In: *Annual Review of Ecology, Evolution, and Systematics* 34.1 (2003), pp. 99–125.
- [41] A Navarro and N H Barton. “Accumulating postzygotic isolation genes in parapatry: a new twist on chromosomal speciation”. In: *Evolution* 57.3 (Mar. 2003), pp. 447–459.
- [42] N H Barton and P D Keightley. “Understanding quantitative genetic variation”. In: *Nat Rev Genet* 3.1 (Jan. 2002), pp. 11–21.

- [43] Nick H. Barton, Frantz Depaulis, and Alison M. Etheridge. “Neutral Evolution in Spatially Continuous Populations”. In: *Theoretical Population Biology* 61.1 (Feb. 2002), pp. 31–48.
- [44] N. H. Barton. “The role of hybridization in evolution”. In: *Molecular Ecology* 10.3 (2001), pp. 551–568.
- [45] Michael Turelli, Nicholas H. Barton, and Jerry A. Coyne. “Theory and speciation”. In: *Trends in Ecology and Evolution* 16.7 (July 2001). review of theory of speciation, pp. 330–343.
- [46] N. H. Barton. “Genetic hitchhiking”. In: *Philos. Trans. R. Soc. Lond., B, Biol. Sci.* 355 (Nov. 2000), pp. 1553–1562.
- [47] N. H. Barton and M. Shpak. “The effect of epistasis on the structure of hybrid zones”. In: *Genet. Res.* 75.2 (Apr. 2000), pp. 179–198.
- [48] N H Barton. “Clines in polygenic traits”. In: *Genet Res* 74.3 (Dec. 1999), pp. 223–236.
- [49] L E Kruuk et al. “A comparison of multilocus clines maintained by environmental adaptation or by selection against hybrids”. In: *Genetics* 153.4 (Dec. 1999), pp. 1959–1971.
- [50] N. H. Barton. “The effect of hitch-hiking on neutral genealogies”. In: *Genetics Research* 72.02 (1998), pp. 123–133.
- [51] J Piálek and N H Barton. “The spread of an advantageous allele across a barrier: the effects of random drift and selection against heterozygotes”. In: *Genetics* 145.2 (Feb. 1997), pp. 493–504.
- [52] M C Whitlock and N H Barton. “The effective size of a subdivided population”. In: *Genetics* 146.1 (May 1997), pp. 427–441.
- [53] B Charlesworth and N H Barton. “Recombination load associated with selection for increased recombination”. In: *Genet Res* 67.1 (Feb. 1996), pp. 27–41.
- [54] N. H. Barton and I. Wilson. “Genealogies and Geography”. In: *Philosophical Transactions of the Royal Society of London. Series B: Biological Sciences* 349.1327 (1995), pp. 49–59.
- [55] M Turelli and N H Barton. “Genetic and statistical analyses of strong selection on polygenic traits: what, me normal?” In: *Genetics* 138.3 (Nov. 1994), pp. 913–941.
- [56] Nicholas H Barton and Katherine S Gale. “Genetic analysis of hybrid zones”. In: *Hybrid zones and the evolutionary process*. New York: Oxford University Press, 1993, pp. 13–45.
- [57] N. H. Barton and S. Rouhani. “The Probability of Fixation of a New Karyotype in a Continuous Population”. In: *Evolution* 45.3 (1991), pp. 499–517.
- [58] N H Barton. “Pleiotropic models of quantitative variation.” In: *Genetics* 124.3 (1990), pp. 773–782.
- [59] J. Mallet et al. “Estimates of Selection and Gene Flow From Measures of Cline Width and Linkage Disequilibrium in *Heliconius* Hybrid Zones”. In: *Genetics* 124.4 (1990), pp. 921–936.
- [60] N. H. Barton and G. M. Hewitt. “Adaptation, speciation and hybrid zones”. In: *Nature* 341.6242 (Oct. 1989), pp. 497–503.
- [61] Nicholas H. Barton. “The divergence of a polygenic system subject to stabilizing selection, mutation and drift”. In: *Genet Res* 54.1 (Aug. 1989), pp. 59–77.
- [62] Montgomery Slatkin and Nicholas H. Barton. “A Comparison of Three Indirect Methods for Estimating Average Levels of Gene Flow”. In: *Evolution* 43.7 (1989), pp. 1349–1368.
- [63] N. H. Barton. “The probability of establishment of an advantageous mutant in a subdivided population”. In: *Genetics Research* 50.01 (1987), pp. 35–40.
- [64] S. Rouhani and N. Barton. “Speciation and the “shifting balance” in a continuous population”. In: *Theoretical Population Biology* 31.3 (1987), pp. 465–492.
- [65] N Barton and B O Bengtsson. “The barrier to genetic exchange between hybridising populations”. In: *Heredity (Edinb)* 57 (Pt 3) (Dec. 1986), pp. 357–376.
- [66] N H Barton. “The maintenance of polygenic variation through a balance between mutation and stabilizing selection”. In: *Genet Res* 47.3 (June 1986), pp. 209–216.

- [67] NH Barton. “The effects of linkage and density-dependent regulation on gene flow”. In: *Heredity* 57.3 (Dec. 1986), pp. 415–426.
- [68] Nick Barton and Bengt Olle Bengtsson. “The barrier to genetic exchange between hybridising populations”. In: *Heredity* 57.3 (Dec. 1986), pp. 357–376.
- [69] Jacek M. Szymura and Nicholas H. Barton. “Genetic Analysis of a Hybrid Zone Between the Fire-Bellied Toads, *Bombina bombina* and *B. variegata*, Near Cracow in Southern Poland”. In: *Evolution* 40.6 (1986), pp. 1141–1159.
- [70] N H Barton and G M Hewitt. “Analysis of Hybrid Zones”. In: *Annual Review of Ecology and Systematics* 16.1 (1985), pp. 113–148.
- [71] N. H. Barton. “Multilocus Clines”. English. In: *Evolution* 37.3 (1983), pp. 454–471.
- [72] Samuel Karlin and Simon Tavaré. “A diffusion process with killing: the time to formation of recurrent deleterious mutant genes”. In: *Stochastic Processes and their Applications* 14.1 (1983), p. 107.
- [73] NH Barton and GM Hewitt. “A measurement of dispersal in the grasshopper *Podisma pedestris* (Orthoptera: acrididae)”. In: *Heredity* 48.2 (Apr. 1982), pp. 237–249.
- [74] N. H. Barton and G. M. Hewitt. “A Chromosomal Cline in the Grasshopper *Podisma pedestris*”. In: *Evolution* 35.5 (1981), pp. 1008–1018.
- [75] NH Barton. “The fitness of hybrids between two chromosomal races of the grasshopper *Podisma pedestris*”. In: *Heredity* 45.1 (Aug. 1980), pp. 47–59.
- [76] NH Barton. “Gene flow past a cline”. In: *Heredity* 43.3 (Dec. 1979), pp. 333–339.
- [77] NH Barton. “The dynamics of hybrid zones”. In: *Heredity* 43.3 (Dec. 1979), pp. 341–359.