

# CV

Bjarki Eldon

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## 1 Academic Background

Degree	University	Year
B.Sc. in biology	University of Iceland	June 1997
M.Sc. in biology	University of Iceland	June 2000
M.A. in statistics	Harvard University	June 2009
Ph.D. in biology	Harvard University	June 2009

## 2 Professional Employment

2009 – present: Postdoc in the Department of Statistics, University of Oxford.

2000 – 2004: Biostatistician at Iceland Genomics Corp. , Reykjavik, Iceland

## 3 Publications

Eldon, B (2009) Structured coalescent processes from a modified Moran model with large offspring numbers. *Theor Popul Biol* 76:92–104.

Eldon B, Wakeley J (2009) Coalescence times and  $F_{ST}$  under a skewed offspring distribution among individuals in a population. *Genetics* 181:615–629

Eldon B, Wakeley J (2008) Linkage disequilibrium under skewed offspring distribution among individuals in a population. *Genetics* 178:1517–32

Eldon B, Wakeley J (2006) Coalescent processes when the distribution of offspring number among individuals is highly skewed. *Genetics* 172:2621–33

Stefansson T, Moller PH, Sigurdsson F, Steingrimsson E, Eldon B (2006) Familial risk of colon and rectal cancer in Iceland: evidence for different etiologic factors? *Int J Cancer* 119:304–8

Eldon B, Thorlacius S, Jonsson T, Jonasson JG, Kjartansson J, Bodvarsson S, Steingrimsson E, Rafnar T (2006) A population-based study on the familial

aggregation of cutaneous malignant melanoma in Iceland. *Eur J Cancer* 42:922–6

Rafnar T, Thorlacius S, Steingrímsson E, Schierup MH, Madsen JN, Calian V, Eldon B, Jonsson T, Hein J, Thorgeirsson SS (2004) The Icelandic Cancer Project: a population wide approach to studying cancer. *Nat Rev Cancer* 4:488–92

Rafnar T, Benediktsdóttir KR, Eldon B, Gestsson T, Sæmundsson H, Olafsson K, Salvarsdóttir A, Steingrímsson E, Thorlacius S (2004) BRCA2, but not BRCA1, mutations account for familial ovarian cancer in Iceland: a population-based study. *Eur J Cancer* 40:2788–93

Eldon B, Jonsson E, Tomasson J, Tryggvadóttir L, Tulinius H (2003) Familial risk of prostate cancer in Iceland. *BJU Int* 92:915–9

Imsland AK, Eldon B, Arinbjarnarson S, Egilsson V, Tulinius H, Tryggvadóttir L, Arngrímsson R, Magnusson J (2002) Genetic epidemiologic aspects of gastric cancer in Iceland. *J Am Coll Surg* 195:181–6

Imsland AK, Eldon B, Arinbjarnarson S, Magnusson J (2002) Gastric cancer in Iceland. *Gastric Cancer* 5:51–4

Eldon B, Axelsson J, Sigurdsson SB, Arnason E (2001) Cardiovascular risk factors and relatedness in an Icelandic subpopulation. *Int J Circumpolar Health* 60:499–502.

## 4 Talks

Gene genealogies and large offspring numbers. The International Symposium on Stochastic Models in Reliability Engineering, Life Sciences and Operations Management, Shamoon College of Engineering, Beer Sheva, Israel. Feb. 8–11, 2010.

Structured coalescent processes,  $F_{ST}$ , and large offspring numbers. Fortythird Population Genetics Group meeting, University of Liverpool, Liverpool, UK. Jan. 5–8, 2010.

Gene genealogies and large offspring numbers. Department of Biomathematics seminar series: Frontiers in systems and integrative biology. University of California, Los Angeles, CA. Oct. 1, 2009.

Gene genealogies and large offspring numbers. Department of Mathematics and

Statistics, University of Canterbury, Christchurch. Sept. 24, 2009.

A two locus diploid Moran model with recombination. New mathematical challenges from molecular biology, Banff International Research Station, Banff AB, Canada. Sept 6-11, 2009.

Skewed offspring distribution among individuals in a population: gene genealogies with multiple mergers of ancestral lines. Bioninformatics Program, University of Michigan, Ann Arbor, MI. Sept. 9, 2008.

Expected time to coalescence and  $F_{ST}$  under a skewed offspring distribution among individuals in a population. Mathematics and Informatics in Evolution and Phylogeny, Hameau de l'Etoile, France. June 10–12, 2008.

Linkage disequilibrium under skewed offspring distributions. Second Cornell Probability Summer School, Cornell University, Ithaca, NY. June 26– July 7, 2006.

Cardiovascular risk factors and relatedness in an Icelandic subpopulation. Eleventh International Congress on Circumpolar Health, Harstad, Norway. June 4–9, 2000

## 5 Posters

Population subdivision with migration and skewed offspring distribution among individuals in a population. XX International Congress of Genetics, Berlin, Germany. July 12–17, 2008.

Population subdivision with migration and skewed offspring distribution among individuals in a population. Annual Meeting of the Society for Molecular Biology and Evolution, Barcelona, Spain. June 5–8, 2008.

Linkage disequilibrium under skewed offspring distribution among individuals in a population. Conférences Jacques-Monod: Evolutionary Genomics, Roscoff (Brittany), France. May 2–6, 2007.

Coalescent models involving multiple mergers - gene genealogies when the distribution of offspring numbers among individuals is highly skewed. Tenth ESEB Congress, Krakow, Poland. August 15–20, 2005.