

Katalin Csilléry

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- EDUCATION**
- ◇ **Institute of Evolutionary Biology, University of Edinburgh, UK**
PhD student, 2006 – 2009 March (expected graduation)
Supervisors: Josephine Pemberton and Toby Johnson (Université de Lausanne, Switzerland)
 - ◇ **Centre de Biologie et de Gestion des Populations, INRA, France**
Visiting PhD student, 2007 September – 2008 March
 - ◇ **University of Edinburgh, UK**
MSc in Quantitative Genetics and Genome Analysis, 2005
 - ◇ **University of Montana, USA**
Graduate non-degree (Statistics), 2002 – 2003
 - ◇ **University of Debrecen, Hungary**
MSc in Biology (Ecology), 2002
- SCHOLARSHIPS AND AWARDS**
- Principal's Studentship, School of Biological Sciences, University of Edinburgh, UK, 2005
 - James Rennie Bequest, University of Edinburgh, UK, 2005
 - Shell Centenary Chevening Scholarship, University of Edinburgh, UK, 2004
- WORK EXPERIENCE**
- ◇ **Post-doctoral researcher**, Institut Universitaire de Médecine Sociale et Préventive, Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland, 2008
 - ◇ **Tutor and Demonstrator**, University of Edinburgh, UK, 2005 – 2007
Courses: Biometrics, Ecological and Evolutionary Genetics
 - ◇ **Field work**, Soay sheep project, "summer sheep catching", St Kilda, UK, 2006
 - ◇ **Research assistant**, University of Montana, USA, 2002 – 2003
 - ◇ **Teaching assistant**, University of Debrecen, Hungary, 2002
Courses: Biometry
- SKILLS**
- ◇ **Computer skills** Linux, MacOSX, extensive programming experience, mainly in R, but also in LaTeX, and perl languages. Familiarity with many population genetic software and simulation tools, such as Simcoal, PLINK.
 - ◇ **Languages** Fluent English and Hungarian, conversational French
 - ◇ **Hobbies** alpinism, rock climbing, ice climbing, skiing
- RESEARCH**
- ◇ **Research interest** My general interest is in biostatistics, especially in computational statistics applied to large, long-term data sets. I am particularly interested in Monte Carlo methods (permutation, bootstrap, Markov chain Monte Carlo) and using computationally intensive approaches (e.g. Approximate Bayesian Computation) to extract, the often subtle, signals from large and complex data sets. I have extensive experience with large genetics data sets, both microsatellites and SNPs.
 - ◇ **Recent research projects**
 - Power comparison of linkage disequilibrium measures.
 - Estimating demographic parameters using Approximate Bayesian Computation.
 - Inferring the population history of great reed warblers.

- Association mapping of cardiovascular disease related traits in the Lausanne population.

- WORKSHOPS
- ◇ **Statistical Estimation in Population Genetics**, Vienna, Austria, 2008, November
K Csilléry: Estimating demographic parameters from admixed population samples using ABC (invited speaker)
 - ◇ **New insights in to mixed model methodology with application to genomics and biostatistics**, LaLonde-les-Maures, France, 2007
 - ◇ **Summer Institute in Statistical Genetics**, North Carolina State University, USA, 2003
- RECENT CONFERENCE PRESENTATIONS
- ◇ **PopGroup**, Manchester, UK, 2007, January
K Csilléry: Testing for linkage disequilibrium with mutiallelic markers (talk)
 - ◇ **PopGroup**, Edinburgh, UK, 2005, December
K Csilléry, T Johnson, J Pemberton: The performance of marker-based relatedness estimators in real population samples (talk)
 - ◇ **10th Congress of the European Society for Evolutionary Biology (ESEB)**, Krakow, Poland, 2005, August
K Csilléry, T Johnson, D Coltman, D Beraldi, B Hansson, J Pemberton: Inferring relatedness using molecular markers versus pedigrees (poster)
- MANUSCRIPTS IN PREP.
- K Csilléry, T Johnson On the choice of an appropriate null hypothesis when testing for linkage disequilibrium in finite population samples
 - K Csilléry et al. Statistical inference in population genetics using microsatellites (a review)
 - K Csilléry et al. Using Approximate Bayesian Computation to estimate demographic parameters from admixed population samples
- PUBLICATIONS
- K Csilléry, T Johnson, D Beraldi, TH Clutton-Brock, D Coltman, B Hansson, G Spong, J Pemberton 2006 Performance of marker-based relatedness estimators in natural populations of outbred vertebrates. *Genetics* 173: 2091-2101
 - K Csilléry, Sz Lengyel. 2004. Density dependence in stream-dwelling larvae of fire salamander (*Salamandra salamandra*): a field experiment. *Amphibia-Reptilia* 25(3): 343-349