

# Curriculum Vitae Carolin Kosiol

## Personal data

- Date and place of birth: May 3rd, 1974, Hofheim i. Taunus, Germany
- Citizenship: German
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## Education

- Oct 1993- Sept 1999 Staatsexamen in Mathematics, Physics and Philosophy, Johannes Gutenberg-University Mainz, Germany
- Oct 1999 - Sept 2000 MSc in High Performance Computing, Trinity College Dublin, University of Dublin, Ireland
- Oct. 2002 - Aug. 2006 PhD student of Nick Goldman (EMBL-European Bioinformatics Institute and Cambridge University, United Kingdom)

## Positions

- Sept 2000 – Sept 2002 Research Assistant, Trinity Centre of High Performance Computing, School of Mathematics, Trinity College Dublin, Ireland.
- Sept. 2006 – Dec. 2008 Postdoc with Adam Siepel and Carlos Bustamante, Biological Statistics and Computational Biology, Cornell University, USA
- Jan. 2009 – present Group Leader in Bioinformatics, Institute of Population Genetics, Vetmeduni Vienna
- Lecturer in Bioinformatics and Statistical Genetics, Department of Statistics and Operation Research, University of Vienna, 2011 – present

## Honors

- 2011 Fellowship for longterm Genomics programme at IPAM at UC Los Angeles
- 2006 Junior Fellowship Newton Institute for Mathematical Sciences, Cambridge
- 2006 Fitch Prize Finalist
- 2002 Wellcome Trust Prize Studentship
- Several small awards for travel to conferences and workshops

## Services

- Member of interview panel for EMBL Interdisciplinary Postdocs (EIPOD)
- Reviewer for Molecular Biology and Evolution, Genetics, PLoS Genetics, Bioinformatics, Journal of Molecular Biology, BMC Evolutionary Biology
- Organization of several symposia and workshops

## Funded Projects

- 2012-2015 Empirical codon models for comparative re-sequencing data, Stand-Alone Grant, Austrian Science Fund (FWF 235,120 €)
- 2010-2014 PhD program in population genetics (FWF 2,393,853€, participating faculty)
- 2002-2005 Markov Models for Protein Sequence Evolution, Wellcome Trust Prize Studentship to do PhD at Cambridge University (62,366 GBP)
- 2000-2001 Fluid Dynamics of the USP Paddle Apparatus, Graduate Stipend, German Academic Exchange Service (DAAD 26,269 DM)

## Five most important publications

1. N. De Maio, C. Schlötterer, and **C. Kosiol**. Linking Great Apes Genome Evolution across Time Scales using Polymorphism-aware Phylogenetic Models. *Molecular Biology and Evolution* 30(10): 2249-2262, 2013.
2. N. De Maio and I.H. Holmes, C. Schlötterer, and **C. Kosiol**. Estimating empirical codon Hidden Markov models. *Molecular Biology and Evolution* 30(3):725-736, 2013.
3. **Orangutan Genome Project**. Unveiling the ancient diversity and slow evolution of the orangutan genome. *Nature* 469 (7331): 529-533, 2011.
4. **C. Kosiol**, T. Vinar T, R.R. da Fonseca, M.J. Hubisz, C.D. Bustamante, R. Nielsen, A. Siepel A. Patterns of positive selection in six mammalian genomes. *PLoS Genetics* 4(8): e1000144, 2008.
5. **C. Kosiol**, and N. Goldman. An Empirical Codon Model for Protein Sequence Evolution. *Molecular Biology and Evolution* 24:1464, 2007.

## Research interests

Probabilistic models for biological sequence evolution, population genetic aspects of phylogeny, time-series analysis of experimental evolution, comparative and population genomics, natural selection