

PhD positions (VIENNA GRADUATE SCHOOL)

Bewerbungsfrist: 21.05.2017

PhD positions in Population Genetics

Over the past years, Vienna has developed into one of the leading centres of population genetics. The Vienna Graduate School of Population Genetics has been founded to provide a training opportunity for PhD students to build on this excellent on site expertise.

We invite applications from highly motivated and outstanding students with a background in one of the following disciplines: bioinformatics, statistics, evolutionary genetics, functional genetics, theoretical and experimental population genetics. Students from related disciplines, such as physics or mathematics are also welcome to apply.

Topics include:

- Evolution of gene expression
- Understanding thermal adaptation
- The impact of new transposable element insertions on adaptation to a new environment
- Wolbachia infection dynamics in evolving *Drosophila* populations
- The adaptive value of diversity produced by recurrent whole genome doubling
- Epigenetic variation in *Arabidopsis*
- Genetic footprints of adaptive introgression
- Statistical inference concerning population genetic parameters from repeated genomic measurement data
- New methods for modelling and analysis of data from experimental evolution
- Maximum likelihood inference of population genetic parameters using genome-wide data
- Macroevolutionary dynamics of selfish DNA unravelled by third generation sequencing
- Dynamics of a selfish DNA invasion

Only complete applications (application form, CV, motivation letter, university certificates, indication of the two preferred topics in a single pdf) received **by May 21, 2017** will be considered. Two letters of recommendation need to be sent directly by the referees. Accepted PhD students will receive a monthly salary based on currently EUR 2071 before tax according to the regulations of the Austrian Science Fund (FWF).

All information about the about available topics, the training program and the application procedure can be found at www.popgen-vienna.at