

**Faculty for Life Sciences  
Department of Evolutionary Anthropology**

Elmira Mohandesan, PhD  
Djerassiplatz 1  
1030 Vienna, Austria

Email: [elmira.mohandesan@univie.ac.at](mailto:elmira.mohandesan@univie.ac.at)  
Phone: +43-1-4277-54716  
<http://www.anthropology.at>

## **PhD Position in Population Genomics, University of Vienna, Austria (f/m/d)**

### **THE POSITION:**

A 3-years Austrian Science Fund (FWF) funded PhD position is available at a genomic research group led by Elmira Mohandesan, PhD at University of Vienna, Austria. In this project we aim to use New Zealand feral horse populations as a natural, on-going laboratory to investigate the effects of founder events and conservation strategies on genetic diversity and inbreeding in natural and managed populations. To this end, it is planned to whole genome shotgun sequence a large number of feral horses from the Kaimanawa ranges. The obtained data will be analyzed using state-of-the-art population genetic approaches.

### **YOUR TASKS:**

- Basic wet-lab experiments (DNA extraction, Illumina library preparation, Quality Control, etc.)
- Population genetic analysis to examine relatedness, breed ancestry, genomic diversity, inbreeding, signature of selection, mutational loads, and the future population viability (scenario testing).
- Documentation of data generation, and analysis procedure.
- Administration, and organization of the generated data according to the Research Data Management (RDM) policy at the University of Vienna (<https://rdm.univie.ac.at/>).
- Active participation in lab meetings, seminars and journal clubs.

### **YOUR PROFILE:**

- Background in evolutionary genetics, molecular biology, population genetics, and/or bioinformatics.
- Bioinformatics skills (e.g., Unix, R, Python, Perl) and expertise in NGS data is required.
- Basic wet-labs skill is advantage.
- Proficiency in written and spoken English is required.
- Ability to work independently, and efficiently within a multi-disciplinary research environment.
- Proactive and self-motivated personality.

### **WE OFFER:**

- A 3-years funded PhD position remunerated according to the FWF personnel costs (gross salary 2.464,80 Euros per month, 14 salaries per year based on the Austrian pay roll system).
- A diverse and supportive team in an inspiring, and international setting at the Department of Evolutionary Anthropology (<https://www.anthropology.at/>).
- In-person scientific seminars by the invited renowned scientists around the world organized through the HEAS platform (<https://www.heas.at/>).
- Access to cutting-edge scientific infrastructure and computational resources through CUBE platform (<https://cube.univie.ac.at/>).
- Living in Austria's capital city Vienna, located in the heart of Europe and ranks as one of the most attractive cities worldwide.

### **HOW TO APPLY:**

Please send your application (CV, motivation letter), and names/contact information of two potential referees to Elmira Mohandesan, PhD (E-mail: [elmira.mohandesan@univie.ac.at](mailto:elmira.mohandesan@univie.ac.at)). Preferred starting date: Fall 2023.