

# Stefanos Papadantonakis

## Personal Information

**Address:** 78 Sbokou St, Mastaba, Heraklion 71 305

**Date of Birth:** October 2<sup>nd</sup>, 1993

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## Education - Achievements

**2021-present** PhD Candidate at Biology Department, University of Crete

**2017-2021** Student in **MS Bioinformatics** at School of Medicine, University of Crete.

**2011-2017 BS** at Biology Department, University of Crete.

## Research Experience

PhD thesis on **Expansion of Neolithic Farmers in Europe.**

Duties involve:

- Analysis of ADNA data.
- Statistical inference of population migration.

Master thesis on **Selection in Spatial Heterogeneous Environments.**

Duties involved:

- Building a population genetics simulator (CSFS) in C.
- Statistical analysis of simulated DNA data.
- Operation of software for detecting natural selection.

Working at Computational Biology Lab (CBL) at IMBB-FORTH to create a computer program for **Coalescent Simulations of Multiple Species**

**(CoMuS).** Duties involved:

- Developing tools in C.
- Statistical analysis in R and Perl.
- Research in academic literature and composing an academic manuscript.
- Familiarizing with **Git**; a program for storing and sharing code.
- Manipulation of mathematical models in molecular evolution.

Internship at the **department of Genetics**, at **Max-Plank Institute of Evolutionary Anthropology**, under **Prof. Dr. Mark Stoneking.**

Duties involved:

- Phylogenetic Analysis of mt-DNA data.
- Organizing presentations for the Institute.

## Workshops

Teaching assistant at [Aegean Seminars for Computational Ecology and Evolution](#) from 16 to 20 September 2018.

[Population Genetics Introductory Course](#) in September 2017 at the Vetmeduni Vienna

EMBO Practical Course on [Computational Molecular Evolution](#) from May 8<sup>th</sup> to May 19<sup>th</sup> 2016, at the Institute of Marine Biology and Aquaculture (IMBBC)

**Phylogenetics Course** from August 31<sup>st</sup> to September 4<sup>th</sup> 2015, at Max-Planck Institute of Evolutionary Anthropology (MPI-EVA)

Workshop on the **Principles of Coalescent Theory and Applications**, February 2012

(<https://sites.google.com/site/principlesofcoalescenttheory/home>)

## Language Skills

**Greek (native language)**

**English (Fluently)**

**2008** Awarded the Certificate of Proficiency in English by the University of Michigan for successfully passing the Examination for the Certificate of Proficiency in English.

## Computer skills

Linux (shell scripting)

Windows, office, excel

C programming Language

R programming Language

Perl programming Language

Python programming Language

## Publications

**Papadantonakis, S., Kioukis A., Karageorgiou Ch., Pavlidis P.** (2024), Evolution of gene regulatory networks by means of selection and random genetic drift. *PeerJ* 12:e17918 <https://doi.org/10.7717/peerj.17918>

**Papadantonakis, S., Poirazi, P. and Pavlidis, P.** (2016), CoMuS: simulating coalescent histories and polymorphic data from multiple species. *Mol Ecol Resour.* doi:10.1111/1755-0998.12544