

Curriculum vitae et studiorum

Personal Informations

Name and Surname: Gabriele Morani

Date of Birth: 24-12-1987

Place of Birth: Magenta (MI)

Nationality: italian

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Education and Training

October 2015-today

PhD in Psychology, Neuroscience and Medical Statistics (ciclo XXXI), University of Pavia.

January 2015

II level Master Course in Medical and Genomical Statistics, University of Pavia.

December 2012

Master Degree in Natural Sciences (105/110), University of Milan.

February 2011

Bachelor Degree in Natural Sciences (100/110), University of Milan.

September 2009

Attendance certificate of the high-formation course “Macroinvertebrati d'acqua dolce”, Museo Tridentino di Scienze Naturali.

July 2009

Attendance certificate of the high-formation course “La Fauna del Suolo”, Museo Tridentino di Scienze Naturali.

July 2005

Diploma di Liceo Classico (80/100) – Liceo Classico Statale S. Quasimodo (Magenta)

June 2004

Preliminary English Test - Pass With Merit

Other Languages

- Good knowledge of spoken english
- Good knowledge of written english
- Basical knowledge of spanish

Personal skills

Knowledge of “Good Manufacturing Practices”(GMP) and “Good Laboratory Practices” (GLP).
Good experience in epidemiology and genetical and biomedical statistics, in particular:

- Analysis of genotypic and expression data in multiple families
- Family-based and case-control association studies
- Linkage analysis
- Data management
- Bioinformatic analysis

Digital competence :

- Good knowledge of Microsoft Office environment (Word, Excel, Access e Powerpoint).
- Programming languages: C, R, Python
- SO: Windows, Linux and Mac OS.
- Softwares: STATA, IMPUTE, MACH, SOLAR, PLINK, Eigenstrat, Merlin.
- Good knowledge of main bioinformatics instruments and genome browsers (Ensembl, NCBI, UCSC).

Research interests

Statistical analysis of genotypic data (ImmunoChip), expression data (eQTL cis and trans) and protein data for complex diseases (Multiple Sclerosis), in Sardinian multiple families.

Development and application of statistical methods in genetical epidemiology: association analysis in presence of missing data both in family-based and case-control studies, IBD sharing and colocalization.

Causal inference in genetic studies, both via Egger regression methods and mediation analysis.

Biomarkers identification. Multiple Sclerosis genetic susceptibility.

Courses (recents)

General Linear Model and Experimental Design using R.
March 24-28, 2014. Milan

Bioinformatic Course.
September 16-19, 2014. CABGen Pavia

Writing a Journal article.. and getting it published.
September 30 - October 3, 2014. Pavia

Sentences for scientists: building a scientific narrative
October 21-22, 2014. Pavia

Introduction to Genomic Bioinformatics (using R).
February 16-19, 2015. Pavia

Advancing NGS Data Analysis and Interpretation: from fastQ to casual variant in one click
March 20, 2015. Pavia

Workshop “*Scienza e meditazione*”.
October 9-10 2015. Pavia

Applied statistical genetics: building the genetic map of multiple sclerosis.
October 19-21, 2015. Pavia

Bioinformatics – Basic methods and applications.
May 4-27, 2016. Collegio Ghislieri, Pavia

Linear mixed-effects models and generalized linear mixed-effects models.
May 18-20, 2016. Monza

Conference “*Does mindfulness intervention support university students’ wellbeing and resilience to stress?*”

June 13, 2016. Pavia

WinteR: Latent Variables Models with R.

February 6-9, 2017. Pavia

Python For Bioinformatics

July 12-14, 2017, Pavia

Teaching activity

February-March 2013

Science course teacher at ASLAM (Associazione Scuole Lavoro Alto Milanese), Magenta (MI).

Conference proceedings

Detecting plasma proteins causally related to MS. A joint analysis of protein and genotyping data.
Morani Gabriele, Fazio Teresa, Pastorino Roberta, Nilsson Peter, Bernardinelli Luisa. *VIII Congresso Nazionale SISMEC*. (Torino, 16-19 Settembre 2015). Atti, pag. 471.

Growing in the darkness: predation ability and cannibalism in cave born larvae of fire salamander, *Salamandra salamandra* (Linnaeus, 1758).

Manenti Raoul, Morani Gabriele, De Bernardi Fiorenza, Ficetola Gentile F. *IX Congresso Nazionale della Societas Herpetologica Italica*. (Bari - Conversano, 26-30 Settembre 2012). Atti pag. 196

Current distribution and potential for expansion of reintroduced Eurasian otter on the river Ticino (in Italy). Prigioni Claudio, Balestrieri Alessandro, Morani Gabriele, Remonti Luigi, Guidali Franca.

Poster presentation

IUCN XIth International Otter Colloquium. (Pavia, 30 Agosto-4 Settembre 2011). *Hystrix - Italian Journal of Mammalogy*, Vol. 22: Special Issue, pag. 34.