

Andrea Benazzo

Personal Information

Date and Place of Birth: December 28, 1983, Rovigo, Italy

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Mailing Address: Department of Biology and Evolution, University of Ferrara, Via Borsari 46, 44100, Ferrara, Italy.

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Education

2009-present Ph.D. in Evolutionary Biology, University of Ferrara.

(Supervisor: Prof. Giorgio Bertorelle)

2008 Master Degree in BioMolecular Science at University of Ferrara, with final mark 110/110 cum laude. (Supervisor: Prof. Guido Barbujani. Thesis (in Italian): Relazioni genealogiche tra Sardi nuragici e popolazioni moderne: confronto tra modelli demografici.)

2006 Degree in Biological Science at University of Ferrara, with final mark 110/110 cum laude. (Supervisor: Prof. Guido Barbujani. Thesis (in Italian): Analisi del Dna attraverso simulazioni in silico di modelli genealogici.)

Additional coursework

2008 Dal C alla programmazione ad oggetti in C++. Courses and Schools, CINECA HPC (Bologna, Italy).

Teaching

2008-2009 Laboratory of Biometry (University of Ferrara)

Memberships

Italian Society for Evolutionary Biology (SIBE).

Contributed presentation

- 2008 Andrea Benazzo, Silvia Ghirotto, Stefano Mona, David Caramelli, Enza Colonna, Giorgio Bertorelle, Guido Barbujani. Genealogical relationship between nuragic and modern Sardinians. Talk in: "III Congresso dei biologi evuzionisti italiani", Alghero (Italy).
- 2009 Giorgio Bertorelle, Andrea Benazzo, Stefano Mona. "When migration mimics population contraction in genetic variation data: a simulation study". Poster in: "Federazione Italiana delle Scienze della vita 2009", Riva del Garda (Italy).

Journal articles

- 1) Belle EM, **Benazzo A**, Ghirotto S, Colonna V, Barbujani G. 2009. *Comparing models on the genealogical relationships among Neandertal, Cro-Magnoid and modern Europeans by serial coalescent simulations*. Heredity. 102(3):218-25.
- 2) Silvia Guimaraes, Silvia Ghirotto, **Andrea Benazzo**, Lucio Milani, Martina Lari, Elena Pilli, Elena Pecchioli, Francesco Mallegni, Barbara Lippi, Francesca Bertoldi, Sauro Gelichi, Antonella Casoli, Elise M. S. Belle, David Caramelli, Guido Barbujani. *Genealogical discontinuities among Etruscan, Medieval and contemporary Tuscans*. Molecular Biology and Evolution 2009; doi: 10.1093/molbev/msp126
- 3) Silvia Ghirotto, Stefano Mona, **Andrea Benazzo**, Francesco Papparazzo, David Caramelli, Guido Barbujani. *Inferring Genealogical Processes from Patterns of Bronze-Age and Modern DNA variation in Sardinia*. Molecular Biology and Evolution 2009; doi: 10.1093/molbev/msp292

Submitted articles

- 1) Giorgio Bertorelle, **Andrea Benazzo**, Stefano Mona. ABC as a flexible framework to estimate demography over space and time: some cons, many pros. *In review for Molecular Ecology*

Research Skills

Computer: Knowledge of Windows and Linux/Unix operating system. Knowledge of R statistical package. Good knowledge of Python, C/C++ and VisualBasic. Experience in working on supercomputer (cluster of CPU) at CINECA (Bologna, Italy), Caspur (Roma, Italy) and own cluster (Ferrara, Italy).

Population Genetics: Arlequin, DnaSp, Beast, IM, Migrate. Experience in implementing ABC techniques (for contemporary and serial sampling).

Simulation: Simcoal, SerialSimcoal, DIY, MS.

Research Interest

Coalescent theory and stochastic processes; phylogenetics; population genetics; molecular evolution; Bayesian statistics; MCMC, IS and ABC techniques; human population history; selection; conservation genetics.