

Gerard Serra-Vidal

PhD in Human Genetics • MSc in Bioinformatics

contact

📅 27th July 1989

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languages

English	Proficient
French	Medium
German	Basic
Spanish, Catalan	Native

work experience

2019–Now

Living DNA

Frome, UK

Bioinformatician and Population Geneticist.

- Working on data analysis and method development for population genetics and ancestry-related projects.
- Managing samples collection and genetic data acquisition projects to improve direct-to-consumer genetic testing offerings.
- Establishing and managing relationships with academic and industry partners.
- Collaborating with customer service, marketing and engineering teams.

education

2014–2018

PhD in Human Genetics

Barcelona, Spain

Institute of Evolutionary Biology (CSIC-UPF). Thesis title: Insights into the human demographic history of Africa through whole-genome sequence analysis. Supervisor: Dr. David Comas.

2013–2015

MSc in Bioinformatics for Health Sciences

Barcelona, Spain

Universitat Pompeu Fabra

2009–2013

BSc in Biology

Barcelona, Spain

Universitat de Barcelona

2007–2009

Two first of courses of BSc in Mathematics

Barcelona, Spain

Universitat Politècnica de Catalunya

computer skills

Programming

Python, R, Bash (advanced)
L^AT_EX, Perl, AWS, C++, SQL (basic)

Bioinformatics

Methods and tools including:

- Genome bioinformatics
 - NGS data analysis
 - population genetics, phylogenetics
 - comparative and functional genomics
- Structural bioinformatics and computer-assisted drug discovery
- Database management and web development

OS

GNU/Linux, MacOS, Windows

Development tools Git, JIRA, Confluence

publications

- **Serra-Vidal, G.**; Lucas-Sanchez, M; Fadhlou-Zid, K.; Bekada, A.; Zalloua, P.; Comas, D. *Heterogeneity in Palaeolithic Population Continuity and Neolithic Expansion in North*

Africa. Current Biology 29:22, 3953-3959 (2019) <https://doi.org/10.1016/j.cub.2019.09.050>

- Lorente-Galdos, B.*; **Serra-Vidal, G.***; Lao, O.*; Santpere, G.; Kuderna, L.; Arauna, L.R.; Soodyall, H.; Zalloua, P.; Fadhlou-Zid, K.; Reich, D.; Marques-Bonet, T.; Comas, D. *Whole-genome sequence analysis of a Pan African set of samples reveals archaic gene flow from an extinct basal population of modern humans into sub-Saharan populations*. Genome Biology 20, 77 (2019). <https://doi.org/10.1186/s13059-019-1684-5>
- Font-Porterías, N.; Solé-Morata, N.; **Serra-Vidal, G.**; Bekada, A.; Fadhlou-Zid, K.; Zalloua, P.; Calafell, F.; Comas, D. *The genetic andscape of Mediterranean North African populations through complete mtDNA sequences*. Annals of Human Biology 45:1, 98-104 (2018). <https://doi.org/10.1080/03014460.2017.1413133>

communication skills

- July 2018 **Society for Molecular Biology and Evolution Conference 2018** Yokohama (Japan)
Serra-Vidal, G.; Lucas-Sánchez, M.; Bekada, A.; Zalloua, P.; Fadhlou-Zid, K.; Comas, D. *Whole genome sequences from North Africa reveal complex Neolithization patterns*. Poster presentation.
- December 2016 **DNA polymorphisms in human populations** Musée de l'Homme, Paris (France)
Serra-Vidal, G.; Comas, D. *Analysis of the human North African genome landscape through the analysis of complete genomes*. Oral presentation.
- July 2015 **Society for Molecular Biology and Evolution Conference 2015** Vienna (Austria)
Serra-Vidal, G.; Lorente-Galdos, B.; Santpere, G.; Kuderna, L.; Arauna, L.R.; Soodyall, H.; Zalloua, P.; Fadhlou-Zid, K.; Reich, D.; Marques-Bonet, T.; Comas, D. *Study of the human African genome landscape through the analysis of complete genomes*. Poster presentation.
- May 2013 **The Biology of Genomes** Cold Spring Harbor, New York (USA)
Lorente-Galdos, B.; Silveyra, A.; **Serra-Vidal, G.**; Soodyall, H.; Zalloua, P.; Fadhlou-Zid, K.; Carvalho, T.; Prado-Martinez, J., Fernandez, M.; Reich, D.; Marques-Bonet, T.; Comas, D. *Demographic inferences from a wide panel of African genomes*. Poster presentation.
- July 2013 **XIII Evolutionary Biology Day (Catalan Society of Biology)** Barcelona (Spain)
Serra-Vidal, G.; Lorente-Galdos, B.; Silveyra, A.; Soodyall, H.; Zalloua, P.; Fadhlou-Zid, K.; Carvalho, T.; Prado-Martinez, J., Fernandez, M.; Reich, D.; Marques-Bonet, T.; Comas, D. *Population history of Y chromosome African lineages inferred from genetic analysis of complete sequences*. Short talk.

other research experience

- Summer 2012 **Institute in Research for Biomedicine (IRB Barcelona)** PCB Summer Internship Program
Bioinformatics and Biostatistics Core Facility (Dr. David Rossell). Project: Inferring alternative splicing from deep sequencing studies.
- Summer 2011 **University of Barcelona** Collaboration
Department of Biochemistry and Molecular Biology, LPL – Lipids Metabolism Lab (Dr. Miquel Llobera). Basic cellular and molecular biology laboratory techniques.