

Gerard Serra-Vidal

PhD in Human Genetics • MSc in Bioinformatics

contact

📅 27th July 1989

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languages

English Proficient

French Intermediate

German Basic

Spanish Native

Catalan Native

experience

2019–Now **Living DNA** Frome, UK
Bioinformatician and Population Geneticist. Leading data science, ancestry-related projects in a direct-to-consumer genetics company.

2014–2018 **PhD in Human Genetics** Institute of Evolutionary Biology (CSIC-UPF), Spain
Supervisor: Dr. David Comas. PhD Thesis title: Insights into the human demographic history of Africa through whole-genome sequence analysis)

education

2013–2015 **MSc in Bioinformatics for Health Sciences** Universitat Pompeu Fabra, Spain

2009–2013 **BSc in Biology** Universitat de Barcelona, Spain

2007–2009 Two first of courses of **BSc in Mathematics** Universitat Politècnica de Catalunya, Spain

computer skills

Programming Python, R, Bash, \LaTeX , Perl, C++ & SQL

Bioinformatics 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 GitHub, 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-Porterias, 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.

other

- Musical studies Five years at local Conservatory.
- Youth activity coordinator Certification by Department of Education, Government of Catalonia.
- Driving licence Class B.