

PERSONAL INFORMATION

Andrea Ganna

Website: <https://www.dsgelab.org/>

Born 10th of November 1985

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• DEGREES

- 2015 **PhD in Medical Sciences.**
Department of Medical Epidemiology and Biostatistics, Karolinska Institute, Stockholm, Sweden. Principal advisor: Dr. Erik Ingelsson.
- 2011 **Master of Science in biostatistics and experimental statistic, *Cum laude*.**
University of Milano Bicocca, Milan, Italy.
- 2007 **Bachelor of Science in Statistic.**
University of Milano Bicocca, Milan, Italy.

• CURRENT EMPLOYMENT

- 2023- **Associate Professor in Health Data Science**
Institute for Molecular Medicine Finland, HiLIFE, University of Helsinki and Faculty of Medicine, University of Helsinki
- 2019- **Research Associate**
Analytical and Translational Genetic Unit, Massachusetts General Hospital and Harvard Medical; Broad Institute of Harvard and MIT, Boston, USA

• PREVIOUS WORK EXPERIENCE

- 2019-2023 **FIMM-EMBL group leader.** Institute for Molecular Medicine Finland, University of Helsinki, Helsinki, Finland
- 2017-2020 **Harvard GINGER program teaching fellow**
T.H. Chan School of public health, Harvard University, Cambridge, USA
- 2015-2019 **Post-doctoral fellow**
Analytic and Translational Genetic Unit, Massachusetts General Hospital, Harvard Medical School, Boston, USA and Broad Institute, Boston, USA.
Principal advisor: Dr. Benjamin Neale
- 2007-2010 **Biostatistician.**
Insubria University, Varese, Italy.

• RESEARCH FUNDING AND GRANTS (total > €5M)

- 2022- **National Institute on Aging (NIA), RO1 AG078522 (co-PI);** 5-years grant; \$3,935,000
- 2022- **The Sigrid Juselius Foundation (PI);** 3-years grant; 150,000 euro.
- 2022- **Horizon Europe NEUROCOV consortium (co-I);** 5-years grant; 359,850 euro.
- 2021- **H2020 INTERVENE consortium (PI);** 5-years grant; 2,157,250 euro.
- 2020- **ERC starting grant (PI);** 5-years grant; 1,550,057 euro.
- 2019- **Academy of Finland Research Fellow (PI);** 5-years grant; 738,873 euro.
- 2019- **NIH-NIA U01 grant (co-I);** 5-years grant; 223,499 euro.
- 2020-2022 **NordForsk Nordic Trial Alliance (PI);** 2-years grant; 50,000 euro.

• RESEARCH SUPERVISION AND LEADERSHIP EXPERIENCE

- 2022- **EMBO Laboratory Leadership course;** one week long.
- 2020- **Co-founder** of the COVID19 Host Genetics Initiative - <https://www.covid19hg.org/>

- 2019- **Leader of a diverse group of 18 researchers** (6 post-docs, 5 Ph.D. students, and 7 data scientists/project managers) including biologists, mathematicians, and MDs.
- 2018-2019 **Leader of a research group** composed by 3 African researchers as part of the Harvard GINGER fellow program.

• **SELECTED AWARDS AND HONOURS**

- 2022 **Leena Peltonen Prize** for Excellence in Human Genetics.
- 2022- **ELLIS** (European Laboratory for Learning and Intelligent Systems) **member**.
- 2018 **Charles J. Epstein Award** for Excellence in Human Genetics Research, Semifinalist, American Society of Human Genetics, San Diego, USA. Plenary talk.
- 2017 **Charles J. Epstein Award** for Excellence in Human Genetics Research, Finalist, American Society of Human Genetics, Orlando, USA.
- 2017 **Fellowship of Excellence for Young Investigators**, European Society of Human Genetic, Copenhagen, Denmark. Plenary Talk.
- 2016 **Stellar Abstract Award**, Harvard Program in Quantitative Genomics Conference, Boston, USA.

• **OTHER ACADEMIC MERITS**

- 2022- Scientific program committee member of the European Society of Human Genetics.
- 2022 Scientific committee Nordic Society of Human Genetics and Precision Medicine.
- 2021 Scientific committee Harvard Program in Quantitative Genomics Conference.
- 2021 PhD thesis opponent, La Trobe University, Australia.
- 2021 PhD thesis opponent, Vrije University Amsterdam, Netherlands.
- 2020 PhD thesis opponent, University of Copenhagen, Denmark.

Reviewer for the following journals: Nature, Nature genetics, Nature Medicine, Circulation: cardiovascular genetics, Diabetologia, International Journal of Epidemiology, American Journal of Epidemiology, Bioinformatics.

• **TEACHING, SCIENTIFIC, AND SOCIETAL IMPACT**

Teaching: More than 70 hours of teaching, mostly lectures. In the largest course I taught (Molecular Epidemiology), my average score was 4.4/5, which was the highest out of the seven teachers of this course. Main research assistant at the one week-long research program in Heckfield, Hampshire, UK as part of the Harvard GINGER program teaching fellowship. Main lecturer at the one week-long Interactive Research Methods and Analysis Workshop in Kampala, Uganda as part of the Harvard GINGER program teaching fellowship. Guest lectures in post-graduate programs at the University of Padova (2021) and in the course "Introduction to the statistical analyses of GWAS" (2021).

Media coverage and public outreach activities: I'm a well-recognized member of the online academic community (Twitter; 2,468 followers). I have also created a Twitter bot that report a GWAS result a day: <https://twitter.com/sbotgwa?lang=en> (3,692 followers). Two of my first-author articles "Five-year mortality predictors in the working age population: a prospective study of 498,103 UK biobank participants" (*The Lancet*) and "Large-scale GWAS reveals insights into the genetic architecture of same-sex sexual behavior" (*Science*) rank in the 99th percentile of the altimetric score (508 and 7256, respectively). The latter article included an extensive outreach activity to LGBTQ advocacy groups. Our results are summarized at <https://geneticsexbehavior.info/>.

I was co-founder of the COVID19 Host Genetics Initiative (<https://www.covid19hg.org/>), which was extensively covered by media outlets, including the New York Times and the Washington Post.

Public speaking: Speaker in 25+ international conferences and courses, including four plenary talks. Invited speaker in 20+ seminar and conferences, e.g. at Stanford and Cambridge Universities.

• **REFEREES CONTACT:**

Dr. Mark Daly

Director, Institute for Molecular Medicine Finland

Founding chief, Analytic and Translational Genetics Unit, Massachusetts General Hospital Institute

Member, Broad Institute

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Dr. Ewan Birney

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Director, European Bioinformatics Institute

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