

Dr. Irene Farabella

Armenise-Harvard Integrative Nuclear Architecture Principal Investigator
Istituto Italiano di Tecnologia-IIT Center for Human Technologies (CHT)
Tower B, Erzelli Science Park

Italy

Nationality	Italian K-5489-2015
Date of birth	0000-0002-7473-6227
Researcher ID	
Orcid code	

EDUCATION

- Sept. 2008 - Mar. 2013** **PhD in Structural Biology**
Institute of Structural and Molecular Biology (ISMB)
University College London and Birkbeck College
Malet Street, WC1E 7HX London (United Kingdom)
- Sept. 2005 - Mar. 2008** **MSc in Medical Biotechnology**
Milano-Bicocca University, School of Medicine
Via Cadore, 48, 20052 Monza (Italy)
- Sept. 2001 - Jul. 2005** **BSc in Biotechnology**
Milano-Bicocca University, Faculty of Natural Science
Department of Biotechnology and Biosciences
Piazza della Scienza 2-4, 20126 Milano (Italy)

RESEARCH EXPERIENCE

- Sept 2022-** **Istituto Italiano di Tecnologia-IIT**, Genova, IT
Principal Investigator of the Armenise Harvard Integrative Nuclear Architecture
Research area: **Genome Imaging and Computational Structural Biology**
- Oct. 2021-Aug. 2022** **Centre Nacional d'Anàlisi Genòmica - Centre de Regulació Genòmica (CNAG-CRG)**, Barcelona, ES
Senior Postdoc and Principal Researcher of the Barcelona Hub of the Centre for Genome Imaging (CGI-CEGS). Leading PI: Prof. Marc A. Martí-Renom.
Research area: **Genome Imaging and Computational Structural Biology**
- Sept. 2020 – Sept. 2021** **Harvard Medical School**, Boston, MA, USA.
Researcher under contractor agreement - NHS approved project, with Prof. Ting Wu.
Research area: **Genome Imaging**
- Jun. 2019 - Aug. 2019** **Harvard Medical School**, Boston, MA, USA.
Visiting Fellow, with Prof. Ting Wu.
Research area: **Genome Imaging**
- Aug. 2018** **Harvard Medical School**, Boston, MA, USA.
Visiting Fellow, with Prof. Ting Wu.
Research area: **Genome Imaging**
- May 2015 - Aug. 2020** **Centre Nacional d'Anàlisi Genòmica - Centre de Regulació Genòmica (CNAG-CRG)**, Barcelona, ES
Gene Regulation, Stem Cells and Cancer Program
Postdoctoral Fellow, with Prof. Marc A. Martí-Renom
Research area: **Computational Structural Biology**
- Oct. 2012 - Mar. 2015** **Birkbeck College, University of London**, London, UK
Research Assistant, with Prof. Maya Topf
Research area: **Computational Structural Biology**
- Sept. 2009 - Sept. 2012** **University College London and Birkbeck College, University of London**, London, UK
PhD candidate, with Prof. Maya Topf and Prof. Gabriel Waksman, Institute of Structural and Molecular Biology (ISMB)
Research area: **Computational Structural Biology**
Thesis: **“Computational Studies of the Usher Outer-Membrane Assembly Platform Involved in Pilus Biogenesis”**

- Apr. 2011 - Jun. 2011** **University of Groningen**, Groningen, Netherlands Visiting Fellow, with Siewert J. Marrink Research area: **Computational Structural Biology** “**Coarse Grained Molecular Dynamics Simulations Using the MARTINI Force Field**”
- Jun. 2008 - Jul. 2008** **University of Pretoria**, Pretoria, South Africa Bioinformatics Technician, with Prof. Fourie Joubert, Department Biochemistry Research area: **Bioinformatics**
- Jun. 2008 - Jul. 2008** **Radboud University Nijmegen Medical Centre**, Nijmegen, Netherlands MSc Student, with Prof. Gert Vriend and Prof. Marialuisa Lavitrano, Centre for Molecular and Biomolecular Informatics (CMBI), Nijmegen Centre for Molecular Life Sciences (NCMLS) Research area: **Bioinformatics**
- Jen. 2007 - Mar. 2008** Thesis: “**Analysing Disease Causing Mutations with Case-Specific Force**

Fields“

- Feb. 2004 - Jul. 2005** **Milano-Bicocca University**, Milan, Italy BSc Student, with Prof. Carlo Ferrarese, School of Medicine Milan Research area: **Neurobiology** Thesis: “**Oxidative Stress and Excitotoxicity in Alzheimer’s Disease: Interaction Among Amyloid-Beta Protein, Glutamate and Map-Kinases Activation Pathways in Ex-Vivo Peripheral Model**”

INDUSTRY CONSULTANT

- Sept. 2017** Allergy Therapeutics, Broadwater, West Sussex, United Kingdom
3D protein modelling and prediction of site of modifications

SCHOLARSHIPS AND GRANT

- Sept 2022 Aug. 2018** Giovanni Armenise Harvard Foundation Career Development Award (CDA)
- Dic. 2017- Dic. 2019** EMBO Short-term Fellowships
Juan de la Cierva Incorporación Postdoctoral Fellow, Spanish Ministerio de Ciencia, Innovación y Universidades grant number: IJCI-2015-23352. **This fellowship aims to encourage the recruitment of established researcher in order to strengthen the skills acquired during a first stage of postdoctoral training.**
- Apr. 2011 - Jun. 2011** Grant from HPC-Europa2 Transnational Access program
- Sept. 2008 - Sept. 2012** Wellcome Trust Funded PhD studentships, grant number: 086711/Z/08/Z
- Jen. 2007 - Mar. 2008** Fellowship from EXTRAPLUS Program financed by Fondazione Cariplo. **This Italian fellowship aims to promoting the mobility of graduate student outside Italy.**

SUPERVISION AND MENTORING

- Apr. 2023- Dic. 2023** Supervising MSc candidate Ivan Piacere in the Data Science of University of Padova (unipd internal supervisor Prof. Francesco Rinaldi). Co-supervising PhD candidate Julen Mendieta Esteban in the UPF PhD program in biomedicine (Co-director of thesis: Prof. Marc Marti-Renom). Co-supervising 3rd year BSc Biochemistry student in the Division of Biosciences UCL (Co-director of thesis: Dr. Maya Topf).
- Apr. 2017- Dic. 2020**
- Oct. 2013 - Apr. 2014**

TEACHING EXPERIENCE

- Invited poster presenter Armenise Harvard Foundation Symposium, Bologna, IT 19-22 Jun. 2022
- Invited participant at the Symposium & annual mc meeting, International Nucleome Consortium, Nuclear Architecture & Function in Toulouse 28 jun. -1 July 2022
- Invited poster presenter at the Chromatin Structure and Function - Gordon Research Conference 29 May – 3 June 2022
- Invited poster presenter at the Chromatin Structure and Function (GRS) Micro to Macro Chromatin Structure in Epigenetics and Disease 28 – 29 May 2022
- Invited participant at the Higher-Order Chromatin Architecture in Time and Space -Virtual 15-17 Nov. 2021
- Seminar Speaker COST Action “International Nucleome Consortium” (INC) Academy seminar, **virtual**, 16 Dic. 2021
- Invited Seminar Speaker, IRCCS Ospedale Policlinico San Martino, Genoa, IT 18 Oct. 2021
- Invited poster presenter NHGRI Centers for Excellence in Genomic Science (CEGS) Annual Meeting, **virtual**, 13-15 Oct. 2021
- Co-hosts of the virtual Multiscale Genome Organization (MGO) Subgroup meeting of the Biophysical Society 11 Aug 2021
- Participant 2020 4DN Phase II Virtual Kickoff Meeting, virtual, 2-4 Dec. 2020
- Invited participant and rapporteur LifeTime Unconference 2.0, Montpellier, FR 6-8 Nov. 2019
- Invited Seminar Speaker, IIT, Genoa, IT 19 Sept. 2019
- IRB Research Nodes Retreat: 3D-4D chromatin structure, Barcelona, ES 25 Feb. 2019

PROFESSIONAL ACTIVITIES

Meeting organizer:

- RNA Retreat Arenzano – Arenzano, from 21.11.2023 to 22.11.2023 (scientific organizer)

Grant review panels:

- AGAUR (Agència de Gestió d'Ajuts Universitaris i de Recerca)- ICREA evaluation Pannel member

Reviewer for: Nature Communications, Nature Genetics, Nature Methods, ELife