

Marco Baity-Jesi

Computational Physicist

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Career Path

- Nov 2019 – **Group Leader**, *Data Science for Environmental Research*, ETH Eawag, Zurich, Switzerland.
present Working on: machine learning applications to ecosystems; dynamics of deep neural networks and disordered systems.
- Nov 2017 – **Postdoctoral Researcher**, *Columbia University*, New York, USA, with David R. Reichman.
Sep 2019 Working on dynamics of deep neural networks and glasses.
- Jan 2016 – **Postdoctoral Researcher**, *CEA Saclay*, Paris, France, with Giulio Biroli.
Oct 2017 Working on dynamics in high-dimensional rugged landscapes and deep neural networks.
- Sep 2015 – **Research Intern**, *University of Pennsylvania*, Philadelphia, USA, with Andrea J. Liu.
Dec 2015 Working on shear jamming of frictionless soft spheres.
- May 2014 – **Research Intern**, *New York University*, New York, USA, with Matthieu Wyart.
July 2014 Working on avalanches in mean-field spin glasses.
- Jan 2012 – **Ph.D. in Physics**, *Universidad Complutense de Madrid / Sapienza University of Rome*, Madrid / Rome,
Dec 2015 with Víctor Martín-Mayor / Giorgio Parisi.
Ph.D. thesis: *Criticality and Energy Landscapes in spin glasses*. Defense: Oct 16th, 2015.
- Sept 2005 – **Bs. and Ms. in Physics**, *Sapienza University of Rome*, Italy.
Jan 2011 Masters thesis: *Energy Landscape in the three-dimensional spin glass*. Final grade: 110/110 *cum laude*.

International Scientific Collaborations

- 2012–current Janus Collaboration on Spin Glass Simulations.
- 2016–2019 Simons Collaboration on Cracking the Glass Problem.
- 2012–2013 Strategic Collaboration with China based on Supercomputing.

Grants

- 2020 – 2022 *A Case Study for Big-Data Workflow in Applied Ecology*, ETH Eawag DF, PI: Marco Baity-Jesi.
- 2016 – 2018 *Simulación y Modelización de Materiales Complejos*, FEDER/MINECO (Spain/EU), FIS2015-65078-C2-1-P, PI: Víctor Martín-Mayor.

Awards & Honors

- 2018 Qualification à Maître de Conférences (Sections 28 & 29), Acreditación a Profesor Ayudante Doctor
- 2017 Premio Extraordinario de Doctorado (*granted by Universidad Complutense de Madrid*)
- 2016 Springer Thesis Prize (*granted by Springer Nature*)
- 2012–2015 FPU Fellowship (*granted by Spanish Ministry of Education*)

Organization of Academic Events

- March 2019 **Simons Collaboration 3rd Annual Meeting**, @ *Columbia University*, New York (NY), USA.
- April 2018 **High-Dimensional Dynamics Workshop**, @ *CUNY Graduate Center*, New York (NY), USA.
- March 2018 **Simons Collaboration 2nd Annual Meeting**, @ *Simons Foundation*, New York (NY), USA.

Miscellaneous

- Languages **Italian** (native), **Spanish** (native), **English** (excellent), **French** (excellent), **Portuguese** (basic), **German** (basic).
- Outreach Technical Editor for the magazine *Science for the People*.