

Matteo D'Achille

matteopdachille@gmail.com
<https://matteodachille.github.io>

Center for Interdisciplinary Research in Biology
COLLÈGE DE FRANCE
11 Place Marcelin Berthelot
75231 Paris

Basic Research Division
CENTRE CEA DE SACLAY
D36
91191 Gif-sur-Yvette cedex

Areas of specialization

Statistical mechanics, mathematical physics, numerical methods

Career

PHD CANDIDATE, Université Paris Saclay, Paris, France

Recent activities

2018 Visiting from 18/2 to 4/3 at BANACH CENTER, Institute of Mathematics of the Polish Academy of Sciences (IM PAN), Warsaw, Poland. [Website](#)

Education

2016 LAUREA MAGISTRALE (MSc) in Theoretical Physics, **110/110 “summa cum laude”**, The University of Milan.
Thesis title: “*On two linear assignment problems: random assignment and Euclidean bipartite matching*”, under the supervision of [Sergio Caracciolo](#) and [Gabriele Sicuro](#).

2012 LAUREA TRIENNALE (BSc) in Physics, **110/110**, The University of Milan.
Thesis title: “*La Teoria di Schwarz-Christoffel e il Biliardo Quantistico Poligonale*”, under the supervision of [Luca Guido Molinari](#)

2009 DIPLOMA DI MATURITÀ SCIENTIFICA PNI, 81/100, Liceo Scientifico “Paolo Frisi”, Monza (Italy).

Publications

JOURNAL ARTICLES

2017 “Random Euclidean matching problems in one dimension”, with S. Caracciolo and G. Sicuro, *Physical Review E* **96** (4), 42102. [doi:10.1103/PhysRevE.96.042102](https://doi.org/10.1103/PhysRevE.96.042102)

“Finite-size corrections in the random assignment problem”, with S. Caracciolo, E. Malatesta and G. Sicuro, *Physical Review E* **95** (5), 52129. [doi:10.1103/PhysRevE.95.052129](https://doi.org/10.1103/PhysRevE.95.052129)

Schools, conferences, workshops

- 2018 “Information transmission in biological systems” conference, Simons Semester on Mathematical Biology, *The Mathematical Research and Conference Center in Będlewo*, Poland. [Website](#)
- 2017 “Computational approaches to investigating allostery” workshop, *CECAM-H₂*, *Ecole Polytechnique Federale de Lausanne*, Lausanne, Switzerland. [Website](#)
- “26th VI-HPS Tuning Workshop”, *Laboratoire Exascale Computing Research (ECR)*, *Campus Ter@tec*, Bruyères-le-Châtel, France. [Website](#)
- 2016 “Optimal Transport and Applications” conference, *Scuola Normale Superiore*, Pisa, Italy. [Website](#)
- 2014 “Mathematical Physics, Analysis and Stochastics” summer school, *Ruprecht Karls Universität*, Heidelberg, Germany. [Website](#)

Scientific societies

- 2017– *European Physical Society*, individual member
- 2013– *Italian Physical Society*, voting member

Service to the profession

- 2017– *American Physical Society*, referee for Physical Review journals and Reviews of Modern Physics