



Mathias CASIULIS

PhD Student at LPTMC, Université Pierre and Marie Curie, Paris

ESPCI Engineer (Class of 2015)

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Research

Oct 2016 - 2019 **PhD in Physics** in the Statistical Physics team at LPTMC, Université Pierre and Marie Curie - UPMC (Paris).

Collective motion of a polar Hamiltonian liquid.

Advisors: Dr. Marco Tarzia, Pr. Leticia Cugliandolo and Dr. Olivier Dauchot

Jan 2016 **Research Internship** (4 months) in the EC2M team, Gulliver lab, ESPCI Paris

Analytical and numerical study of a Hamiltonian liquid of spins.

Supervisor: Dr. Olivier Dauchot

May 2015 **Research Internship** (3 months) in the MeTheo team, LOP lab, Institut Langevin, ESPCI Paris

Analytical and numerical optimization of light absorption in a strongly scattering medium.

Supervisors: Dr. Romain Pierrat, Pr. Rémi Carminati

Jul 2014 **Corporate Internship** (6 months) in the Cold Atoms team, LMNP lab, Thales Research and Technology (Palaiseau lab)

On-chip matter-wave interferometry for gravimetry

Supervisor: Dr. Sylvain Schwartz

Publication: M. Dupont-Nivet, **M. Casiulis**, T. Laudat, C. Westbrook, S. Schwartz, [Phys. Rev. A 91, 053420](#) (2015)

Jul 2013 **Research Internship** (6 weeks) in the SPECS team, INSP lab, UPMC

STM Observation of Type II Superconductors

Supervisor: Pr. Dimitri Roditchev

Teaching and Outreach

2017 - **Teaching assistant at UPMC.** Exercise classes and practical work for 1st year students - Newtonian Dynamics.

2017 - **Co-writer and teacher** of the Physics for All lectures at ENS Paris.

2014 - **Vice-president**, co-creator, producer, and host for **The Lutetium Project** (www.youtube.com/TheLutetiumProject)

2012 - 2014 **Teaching assistant** for prep classes students at Lycée Louis-le-Grand. Oral examinations in Physics.

Education

2015 - 2016 **Master 2 ICFP-ENS, Quantum Physics Program** - *magna cum laude*, average score: 76.4% - Ecole Normale Supérieure

2012 - 2015 **ESPCI Paris** (*Grande Ecole d'Ingénieurs*, <https://www.espci.fr/en/>) - **Physics class Valedictorian**

2010 - 2012 **Preparatory classes for Grandes Écoles** – Physics Section - Lycée Louis-le-Grand (Paris)

2010 **Baccalaureate** (*Science major*) – *summa cum laude*, average score: 90.9%

Languages

French	Mother tongue
English	Fluent - 8.5/9 IELTS score in 2014.
Spanish	Intermediate level
Lithuanian	Intermediate level
Code	C, Fortran, Matlab, Mathematica