

CV Léonie CANET

function: Associate Professor (Maître de conférence) since September 2006

affiliation: University Grenoble Alpes (former University Joseph Fourier)

research unit: Laboratoire de Physique et Modélisation des Milieux Condensés (LPMMC) UMR 5493

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CAREER SUMMARY

- 2018 **Bronze Medal of CNRS**
- 2016 **Habilitation thesis (HdR): *From interface growth to turbulence***
- 2013 6 months of **délégation CNRS** (leave for research)
- 2010 one semester of **invited professorship** at the University of the Republic (Montevideo)
- 2006 – **Associate Professor** at University Grenoble Alpes
- 2006 **Post-doc** at SPEC and IPhT (*CEA Saclay, France*) with G. Biroli, J.-P. Bouchaud and H. Chaté. Dedicated to problems of slow dynamics in disordered systems and critical dynamics in non-equilibrium systems.
- 2004-05 **Post-doc** in the Theoretical Physics Group (*University of Manchester, UK*) with M. Moore. Dedicated to the study of interface growth and roughening transition, and spin glasses.
- 2001-04 **PhD** at LPTHE Jussieu (*University Paris VII Denis Diderot*) under the supervision of B. Delamotte. Dedicated to the study of reaction-diffusion processes using non-perturbative renormalisation group methods.

Undergraduate studies

- 2000-01 **Master 2** of “Fields, Particles and Matter” (*University Paris XI – Orsay*)
- 1998-01 **Ecole Supérieure d'Electricité - Supélec** (Gif-sur-Yvette)
- 1996-98 **Mathématiques Supérieures (MPSI) and Spéciales (PSI*)** at Lycée Champollion in Grenoble.

SCIENTIFIC RESPONSIBILITIES

- 2019 – member of the **scientific council of the GdR** (CNRS structural research group) Turbulence
- 2017 – member of the **council of the doctorate school of physics** of UGA
- 2016 – member of the **bureau of the CTPGA** (Center for Theoretical Physics Grenoble Alpes)
The CTPGA is a research Federation of CNRS and University Grenoble Alpes, in charge of the organisation of theoretical physics in the Grenoble and Alpes area.

Recruitment and PhD committees

- 2019 **member of the recruitment committee** for a position of associate professor at University Paris-Sorbonne
- 2018 **member of the recruitment committee** for a position of associate professor at University Rabelais (Tours)
- 2018 **member (referee) of the jury for the PhD** of Olivier Coquand (University Paris Sorbonne)
- 2012-13 **elected member of the “comité national” of CNRS** (section 02 : theoretical physics)
national recruitment committee of CNRS researchers.

2010 **member of the recruitment committee** for a position of associate professor at the University Joseph Fourier.

MASTER AND DOCTORAL SUPERVISION

post-doc (2019-2021) – 2 years: funded by ANR-PRCI

Composite operators and non-perturbative renormalisation group in the Kraichnan model

post-doc (2015-2016) – 1 year 1/2: Steven Mathey

Influence of a microscopic spatial correlation with finite width in the noise of the Kardar-Parisi-Zhang equation.

post-doc (2010-2013) – 2 years 1/2: Thomas Kloss

Strong-coupling phases of the Kardar-Parisi-Zhang equation using non-perturbative renormalisation group.

PhD student (2019-2022) – 3 years : Konstantinos Degliannis (co-direction with Anna Minguzzi (LPMMC))

Study of KPZ physics in Exciton-Polariton systems

PhD student (2018-2021) – 3 years : Anastasiia Gorbunova (co-direction with V. Rossetto (LPMMC) and G. Balarac (LEGI))

Numerical simulations and advanced data analysis in turbulence.

PhD student (2016-2019) – 3 years : Davide Squizzato (co-direction)

KPZ physics in quantum fluids of light; breaking of Galilean invariance in KPZ equation.

PhD student (2015-2018) – 3 years : Malo Tarpin (defence 20/11/2018)

Non-perturbative renormalisation group approach to some out of equilibrium systems: the diffusive epidemic process and fully developed turbulence.

Visiting young researchers:

2018 Carlo Pagani (**post-doc** with Martin Reuter at University of Mainz, Germany)

2010 Federico Benitez (**PhD student** with Nicolas Wschebor at Universidad de la Republica Montevideo, Uruguay)

2010 Markus Weber (**diplomarbeit student** with Erwin Frey at Ludwig-Maximilians-Universität Munich, Germany)

CONFERENCE ORGANISATION

Juin 2017 **Workshop** “Turbulence and polaritons” (**Grenoble, France**)

<http://lpmmc.cnrs.fr/workshop-turbulence-and-polaritons>

Jan. 2016 **Workshop** “KPZ equation in mathematics and theoretical physics” (**Grenoble, France**)

<http://lpmmc.grenoble.cnrs.fr/workshopKPZ>

July 2016 **NEQ-Fluids 2016** “Classical and Quantum Fluids out-of-equilibrium” (**Villard-de-Lans, France**)

<http://neqfluids2016.sciencesconf.org/>

satellite conference of STATPHYS 26 (Lyon), co-organised with A. Minguzzi (LPMMC) and T. Roscilde (ENS Lyon)

GRANTS, FUNDINGS, AND EVALUATIONS

Grants as principal investigator

2019-2022 **ANR PRCI French-Germany** (German PI: Stefan Floerchinger)

NEQfluids: Classical, quantum and active fluids out-of-equilibrium

2016 **grant** “défi Infinity” (from the physics institute of CNRS)

NEQ-DYN: Nonequilibrium phase transitions in quantum fluids of light and connection with the physics of interface

growth and the Kardar-Parisi-Zhang equation

2017 **grant** “défi Infinity” (from the physics institute of CNRS) NEQ-DYN: renewal

Grants as partner

- 2019-21 ANR JCJC (young researchers) (PI Vivien Lecomte)
2018-21 project **ECOS-Sud** France-Uruguay (ref. U17E01)
Phase transition and critical phenomena: from deconfinement transition to turbulent flows
2011-14 project **ECOS-Sud** France-Uruguay (ref. U11E01)
Long-distance physics of non-equilibrium stochastic process and quantum chromodynamics
2011-13 two-year **post-doctoral funding** from the German foundation **Alexander von Humboldt**
+ 8-month **post-doctoral funding** from **CNRS** for a post-doc fellowship (Thomas Kloss).

Leaves for research

- 2013 **one semester of delegation** at **CNRS** (Leave for Research granted by the CNRS)
2010 **one semester of CRCT** (Leave for Research and Thematic Change) granted by the CNU
(National Council of Universities) – 28th section, related to the six-month stay in Montevideo.

Evaluation and refereing activities

I am a regular referee for PRE, PRB, J. Stat. Phys., J. Phys. A, EPL, Physica A, and I also provided an expertise for edition Grenoble Sciences.

I was expert for different evaluations: projects for Labex PALM (Orsay), promotions for University Aix-Marseille, evaluations for the Institute of physics of CNRS.

DISTINCTION

- 2018 **Bronze Medal of CNRS**
2018 **Recipient of the PEDR** (Prime d'Encadrement Doctoral et Recherche) for 5 years.
2012 **Recipient of the PES** (Prime d'Excellence Scientifique) for 5 years.