

# CURRICULUM VITAE

November 22, 2024

## David LACOSTE

born on december 22nd 1971 in Montpellier (France),  
CNRS researcher in the Laboratoire Gulliver,  
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### EDUCATION

2009	Habilitation degree from P. et M. Curie University
1996 – 1999	Ph.D. in Theoretical Physics, Université Joseph Fourier, Grenoble
1994 – 1995	Master in Quantum Physics from Ecole Normale Supérieure, Paris

### EMPLOYMENT

Jun 2016 – present	CNRS Directeur de Recherches (DR2 level) at Gulliver laboratory, ESPCI
Jun 2005 – Jun 2016	CNRS Chargé de Recherches (CR1 level) at Gulliver laboratory, ESPCI
Jan 2002 – Jun 2005	CNRS Chargé de Recherches (CR2 level) at Gulliver laboratory, ESPCI
Jan 2000 – Jan 2002	Postdoctoral Fellow with T. Lubensky at Dept. of Physics, University of Pennsylvania, Philadelphia, USA
1992 – 1995	Undergraduate studies at Ecole Normale Supérieure, Paris

### HONOR

Sept 2020	Distinction "Outstanding referee" for APS
Sept 2012	Distinction "Outstanding referee" for EPL
Sept 2011 – 2015	Distinction "Prime d'excellence scientifique" from CNRS

### RESEARCH

My research focuses on Non-equilibrium statistical physics and Thermodynamics applied to biological systems. I have been involved in the development of Stochastic Thermodynamics, and more recently in studies on the Origin of life. I am author of 81 peer-reviewed publications (h index 28), which are available on my web site.

### STUDENTS SUPERVISION

Currently supervising 1 PhD student, B. Ledoux. A. Despons recently defended his thesis on November 21st on the topic of 'Physical aspects of autocatalysis'. I have supervised so far 6 PhD students and about 9 postdocs.

### ACTIVITIES OF GENERAL INTEREST

- Member of the organizing committee of Qlife, a funding initiative of PSL University in Biophysics.
- Referee for PRL, PRE, EuroPhys. Letters, New J. of Phys., J. Chem. Phys., J. Stat. Mech...
- Organization of international conferences 3 between 2017 and 2018 and 2 in 2024 including 'Sadi Carnot's legacy' at Ecole Polytechnique on September 16th-18th 2024.

## LIST OF INVITED TALKS IN THE LAST TEN YEARS

- Evolution in Paris, 30 Sept 2024
- Paris-Rice meeting, Sept 2024
- Thermodynamics 2.0 (on line), Broomfield, USA, August 2024
- Workshop on Emergence of Information in Molecular Systems, Munich, July 2024
- Workshop on Evolution of population dynamics, Pasteur Institute, Paris, June 2024
- Congress of French Society of Physics, Paris, July 2023
- Postmodern Thermodynamics conference, Luxembourg, December 2022
- Thermodynamics 2.0 (on line), Riverside USA, July 2022
- Stochastic Thermodynamics conference (on line), ICTP, Bangalore, June 2022
- Physics of the Emergence of Life, MIAPP program, Munich September 2021
- Joint European Thermodynamics Conference (JETC), Prag, June 2021
- Conference of the Mathematical Biology Society (SMS), Riverside, USA, June 2021
- Conference of French physics society (SFP), Nantes, July 2019
- Workshop on "Random talks in Stochastic Thermodynamics", Santa Marinella, June 2019
- Workshop on the origin of biochemistry, Florence, Italy, October 2018
- Conference in honor of L. Peliti "A path in statistical physics", Univ. Paris Diderot, September 2018
- Conference on Stochastic Thermodynamics, Dresden, September 2018
- Conference on Stochastic Thermodynamics, Stockholm, Septembre 2017
- Conference on Evolution and Diversity, NCBS Bangalore, India, February 2017
- Non-equilibrium and non-linear phenomena in Statistical Mechanics, Brussels, July 2016
- Biomembrane workshop, UC Davis, USA, September 2016
- Statistical Physics Conference, Lyon, July 2016
- Joint European Thermodynamics Conference (JETC), Nancy, May 2015
- Workshop "Stochastic Thermodynamics of biological systems", Stockholm, September 2015
- "Fluctuation theorems: where do we go from here",
- Workshop "Thermodynamics of out-of-equilibrium quantum systems", Grenoble October 2014
- Conference Condensed Matter CMD25, Paris, August 2014.