# CURRICULUM VITÆ

Squizzato	Davide CONTACTS AND PERSONAL INFORMATIONS	4			
	<ul> <li>davide.squizzato (at) lpmmc.cnrs.fr</li> <li><u>Scholar Page</u></li> <li><u>Personal Page</u> for more details</li> <li>Sex M   Date of birth 26/06/1991   Place of Birth Turin (ITA)   National Page</li> </ul>	onality Italian			
EDUCATION					
since Oct. 2016	PhD STUDIES in THEORETICAL PHYSICS				
	@ LPMMC, Grenoble (FRA), on universal properties of KPZ-related systems.				
	Supervisor: Léonie Canet, Co-Supervisor: Anna Minguzzi				
	Degree expected on Sept. 2019				
from Sept. 2013	MSc STUDIES in PHYSICS OF COMPLEX SYSTEMS	110/110 cum Laude			
to July 2015	Joint Degree SISSA & ICTP (ITA), Politecnico di Torino (ITA), UPMC/Paris7/Paris Sud/ENS Paris (Fl des systemes complexes)	RA) (M2 en Physique théorique			
	Thesis: "Non-perturbative effects in Quantum Field Theory: Vacuum Expectation Values of th	IE			
	Sinh-Gordon Model"				
	Supervisors: Prof. Mussardo Giuseppe (SISSA), Prof. Montorsi Arianna (PoliTo)				
from Sept. 2010	BACHELOR'S DEGREE IN PHYSICAL ENGINEERING	108/110			
to july 2013	Politecnico di Torino (ITA)				
from Sept 2005	SCIENTIFIC HIGH SCHOOL DEGREE (physics program)	100/100			
to july 2010	LSS Charles Darwin, Rivoli, Torino (ITA)				

#### SCHOOLS, FELLOWSHIPS and COLLABORATIONS

from Oct. 2015	POSTGRADUATE PERSONAL FELLOWSHIP		
to May 2016	@ Staistical Physics group in SISSA (Trieste) under supervision of Prof. Mussardo.		
	Attended First Year PhD Courses of the Statistical Physics Curriculum.		
Feb. 2016	@ Galileo Galilei Institute for Theoretical Physics (GGI), Firenze (ITA)		
from Nov. 2015 to Dec.2015	BROOKHAVEN NATIONAL LAB (New York, USA) Collaboration with Robert Konik on TCSA Approach to Massive Theories as Perturbed CFT.		
from May 2015 to June 2015	© International Center for Theoretical Physics (ICTP), Trieste (ITA)		

15 @ Staistical Physics group in SISSA (Trieste) under supervision of Prof. Mussardo.

## **RESEARCH INTERESTS**

My main interest is the concept of universality in out-of equilibrium statistical physics. In my PhD thesis I investigated both quantum and classical systems, namely Exciton-Polaritons and classical growth model, using field theoretical techniques such as Schwinger-Keldysh and Martin-Siggia-Rose-Janssen-De Dominicis formalisms. My recent research focuses on a paradigmatic equation for modeling out-of-equilibrium classical phenomena, the Kardar-Parisi-Zhang (KPZ) equation, whose universal features are studied using the Non-Perturbative Renormalization Group (NPRG) technique.

## **PUBLICATIONS**

• Kardar-Parisi-Zhang universality in the phase distributions of one-dimensional exciton-polaritons

Davide Squizzato, Léonie Canet, and Anna Minguzzi, Phys. Rev. B 97, 195453

#### In PREPARATION

• Kardar-Parisi-Zhang Equation with Broken Galilean Invariance

Davide Squizzato and Léonie Canet

# CONTRIBUTED TALKS in CONFERENCES

- Aug. 29<sup>th</sup> 2018 Kardar-Parisi-Zhang universality in the phase distributions of one-dimensional exciton-polaritons JMC 2018, Journées de la Matière Condensée, UGA Grenoble (FRA).
- April 24<sup>th</sup> 2018 Kardar-Parisi-Zhang universality in the phase distributions of one-dimensional exciton-polaritons Workshop "Turbulence and Polaritons", CPTGA Grenoble (FRA).

## **INVITED TALKS**

- Feb. 23rd 2018Kardar-Parisi-Zhang universality in the phase distributions of one-dimensional exciton-polaritonsICTP Spring School on Complex Systems, Trieste (ITA). Invited seminar.
- Oct. 3<sup>rd</sup> 2017 Kardar-Parisi-Zhang universality in the phase distributions of one-dimensional exciton-polaritons LPTMS, Paris Sud University (FRA). Invited seminar.

#### **POSTERS**

- 1-4 May 2018 MECO43: 43nd Conference of the Middle-European Cooperation in Statistical Physics AGH, Krakow (POL)
  - 8-12 May QFLM2017: Quantum Fluids of Light and Matter
    - 2017 Cargese, Corsica (FRA)
- 7-10 Mar. 2017 Functional Renormalization Group 2017 IWH Heidelberg (DE)

8-10 Feb. 2017 MECO42: 42nd Conference of the Middle-European Cooperation in Statistical Physics ENS, Lyon (FRA)

ATTENDED CONFERENCES				
19-23 Sept. 2016	ERG:	G2016: 8 <sup>th</sup> Conference on the Exact Renormalization Group 7. Trieste (ITA)		
13-16 July 2016	NEQ Villarc	QFLUIDS2016: Classical and Quantum Fluids Out of Equilibrium ard de Lans, Grenoble (FRA)		
TEACHING				
Thermodynamics		<b>a.y. 2017/18, 2018/2019</b> Travaux pratiques, 40 hours per year, 2 <sup>nd</sup> year of bachelor in Physics at UGA Grenoble (FRA).		
Basic program for Phys	ming sicists	a.y. 2017/18, 2018/2019 Travaux dirigés, 20 hours per year, 3 <sup>rd</sup> year of bachelor in Physics at UGA Grenoble (FRA).		
PERSONAL SKILLS				
Theoretical exp	ertise	<ul> <li>Schwinger-Keldysh/MSR-JdD field theories</li> <li>Exciton-Polaritons systems</li> <li>Continuum description of driven-dissipative open quantum systems</li> <li>Continuum description of classical growth-model</li> <li>KPZ universality class</li> <li>Non-Perturbative Renormalization Group</li> <li>Numerical integration of integro-differential equations</li> </ul>		
Computer	<b>skills</b>	Programming languages: Python, Mathematica, Fortran, AWK, Bash, C		
Other skills Inte	s and erests	Lifeguard, Alpinism assistant instructor, Backcountry/Alpinism Ski, Climbing, Surf, Mountain Biking, Travelling, Street and B&W Photography, Photojournalism, History and Philosophical grounds of libertarian movements		
Langu	Languages Italian (mother tongue), French and English (proficient), Russian (beginner)			