SUANNO Rocco

Q Lyon, France

Physicist, 1st year PhD Candidate



Date of birth: 22/01/2001

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ABOUT ME

Passionate about the broad spectrum of physics, I'm more interest in theoretical subjects, while maintaining a curiosity for experimental applications, especially in solid-state physics. I obtained my master's degree in solid-state physics and quantum technologies from University of Milano-Bicocca and then I moved to Lyon for an internship at the Institut Lumière Matière, where I'm currently pursuing my PhD. The goal of my PhD project is to develop a model for the control of nano-scale structures on crystal surfaces using spatio-temporal driving forces, such as growth or electric fields.

EXPERIENCE

Institut Lumière Matière

Lyon, France

PhD Candidate

October 2024 - Present

• Optimal Nano-structure design at crystal surfaces

Supervisors:

olivier.pierre-louis@univ-lyon1.fr; thierry.biben@univ-lyon1.fr

Keywords: Theory and modeling; Non-equilibrium statistical physics; Nonlinear dynamics; Optimal control.

Intern

February 2024 - July 2024

• Control of phase separating system close to criticality

Supervisors: olivier.pierre-louis@univ-lyon1.fr; francesco.montalenti@unimib.it

Keywords: Control theory; Spinodal decomposition; Allen-Cahn equation; Time-dependent Ginzburg-Landau equation.

Università degli studi di Milano-Bicocca

Milano, Italy

Intern

April 2022 - September 2022

• The standard map: chaoticness and first passage times

Supervisor: giampaolo.cristadoro@unimib.it

Keywords: Chaos in dynamical systems; Random walks; First passage times.

LABORATORY EXPERIENCE

Università degli studi di Milano-Bicocca

Milano, Italy

Laboratory of quantum technologies

September 2022- July 2023

Keywords: Superconducting qubit; Parametric amplification; RF transmission line; Low temperature physics.

Laboratory of computational physics

September 2021- July 2022

Keywords: Interpolation; Optimization; Integration; Random-walk on graph; Schrödinger Equation.

EDUCATION

Université Claude Bernard Lyon 1

Lyon, France

PhD Student, Non-equilibrium physiscs and non-linear dynamics

October 2024 - Present

Università degli studi di Milano-Bicocca

Milano, Italy

Master in solid-state physics and quantum technologies

September 2022 - September 2024

TECHNICAL SKILLS

Operating systems: Linux, Microsoft Windows

Languages: Python, C, Matlab, Bash

LANGUAGES

Fluent in Italian (Native language) - Professional level in English - Good level in French