Miriam Galbiati

Date of Birth: 26th September 1991
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Currently Ph.D. student in Physics working on growth and characterization of 2D materials. The growths are carried out in a UHV system equipped with STM for structural characterization with atomic resolution and STS measurements are used to probe the electronic properties of the samples.

EXPERIENCES

September 2018 – present

Ph.D. Student
DTU Physics - Technical University of Denmark
Project: Growth and characterization of electronic properties of Silicene and other 2D materials.

January 2017 – August 2017

Graduate Research Assistant
DTU Nanotech - Technical University of Denmark
Major contributions: graphene-hBN heterostructures for electronic devices. Graphene as scaling-inhibitor coatings.

PUBLICATIONS

"Group-IV 2D materials beyond graphene on nonmetal substrates: Challenges, recent progress, and future perspectives"
Applied Physics Review, November 2019 (DOI: 10.1063/1.5121276)

"Non-destructive thickness mapping of wafer-scale Hexagonal Boron Nitride down to a monolayer"
ACS Applied Materials and Interfaces, July 2018 (DOI: 10.1021/acsami.8b08609)

"CVD Graphene/Ni interface evolution in Sulfuric electrolyte"
Langmuir, February 2018 (DOI**:** 10.1021/acs.langmuir.8b00459)

"Real-Time Oxide evolution of Copper protected by Graphene and Boron Nitride barriers"
Scientific Reports, January 2017 (DOI: 10.1038/srep39770)

EDUCATION

March 2014 – December 2016

M. SC. in Nuclear Engineering

Politecnico di Milano

Areas of specialization: physics, nanotechnology and medical applications of radiations.

Thesis Project: Comparative study of CVD-grown Graphene and Boron-Nitride as protective coatings for Copper against oxidation and corrosion.

January 2016 – July 2016

Visiting Student

DTU Nanotech - Technical University of Denmark

Areas of specialization: advanced 2D materials, materials characterization, electrochemistry.

September 2010 – February 2014

B. SC. in Materials Engineering and Nanotechnology

Politecnico di Milano

Areas of specialization: quantum mechanics, materials science and industrial materials production.