

# Luis D. Zambrano Palma

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Texas A&M University  
Department of Physics and Astronomy  
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## Education

**Texas A&M University, College Station, United States**

Ph.D., Physics, Fall 2023, Now.

Fields: Quantum Optics

**Texas A&M University, College Station, United States**

M.Sc., Physics, Fall 2023, Now.

Fields: Quantum Optics

**Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil**

M.Sc., Physics, 2021.

Fields: Theoretical condensed matter physics, DFT, Nano-materials

**Escuela Superior Politécnica del Litoral, Guayaquil, Ecuador**

B.Sc., Mechanical engineering, 2016.

## Awards and Fellowships

**Graduate Fellowship of Texas A&M University**

College Station, United States, 2023-2024

**Full Graduate Scholarship of CAPES**

Rio de Janeiro, Brazil, 2020-2021

**Full Academic Performance Scholarship of FAPERJ**

Rio de Janeiro, Brazil, 2019-2021

## Publications

**Vibrational Stability in Graphene: Effects of Strain and Number of Layers**

Luis D. Zambrano Palma, Marcos G. Menezes, Rodrigo B. Capaz

**Phys. Rev. B**, 106, 19, 195407, DOI: 10.1103/PhysRevB.106.195407, 2022

## Teaching Experience

**Department of Physics and Astronomy, Texas A&M University**

Teacher Assistant, PHY 201-College Physics-vol 1, Fall 2023 (20 hours/week)

Teacher Assistant, PHY 202-College Physics-vol 2, Spring 2024 (20 hours/week)

**Mechanics Engineering Department, Escuela Superior Politécnica del Litoral**

Lab professor, Instrumentation, 2021-2023 (40 hours/week)

Lab professor, Thermodynamics, 2021-2023 (40 hours/week)

Lab professor, Fluid Mechanics, 2021-2023 (40 hours/week)

**Physics Department, Universidade Federal do Rio de Janeiro**

Teacher Assistant, Statistical Mechanics, 2020 (20 hours/week)

**Physics Department, Escuela Superior Politécnica del Litoral**

Lab professor, Physics I, 2017-2018 (40 hours/week)

Teacher Assistant , Physics I, 2017-2018 (40 hours/week)

**Activities Escuela Superior Politécnica del Litoral**

1. Academic assistant: Physics Lab B, Physics Lab C, Differential Equations, Physics D, Fluid Mechanics II and Machinery Mechanics II

2. Research assistant: in project "Thermal Characterization of Construction Materials (INER-ESPOL) 2016"

**Languages and Skills** Spanish (native), English (advanced)

QUANTUM ESPRESSO, L<sup>A</sup>T<sub>E</sub>X, HTML, Python, BASH

**References**

Rodrigo B. Capaz

Board of Directors

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Physics Department

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