Jose Gustavo Bravo Flores

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Website

GitHub

Education

2021 - Present

- M.S. Physics, The University of Texas at El Paso, USA.
- 2015 2020
- B.Sc. (Hons) Physics, University of Sonora, Mexico.
 One semester abroad at University of Santiago of Chile, Chile.
 Thesis title: Quantum tunneling simmulations for gaussian waves.
 - Development of computational tool for the research project. Language: FORTRAN.
 - Compared the tunneling factors obtained from numerical integration against traditional quantum tunneling formulas.
 - Analysis of Hartman effect and wave packages lag.

Assistanships

June 2021 – Present

■ Graduate Research Assistant. Department of Physics, The University of Texas at El Paso. (as a M.S. student)

January 2021 – May 2021

■ Graduate Teaching Assistant. Department of Physics, The University of Texas at El Paso. (as a M.S. student)

September 2017 – May 2020

■ Undergraduate Teaching Assistant. Department of Physics, University of Sonora, Mexico.

January 2017 – May 2017

■ Undergraduate Research Assistant. Department of Physics, University of Sonora, Mexico.

Research Publications

Oral Presentations

- Bravo, G., Johnson, A., Withanage, K., Jackson, K. & Pederson, M. (2022). *A Novel Pathway from DFT to CI* [American physical society March Meeting 2021, Chicago, Illinois. (Talk)].
- Lasode, P., Bravo, G., Rivera, R., Woodruff, G., Garcia, C., Glezakou, O., Alexandra, G. & Pederson, M. (2022). *Quantum Now: Minimalist Methods for Quantum Calculations and Experiential Learning* [American Physical Society March Meeting 2021, Chicago, Illinois. (Talk)].
- Bravo, G., Cornelio, R., Corella, A., Gomez, R., Castro, P. & Rosas, A. (2019). *Modulation of the correlation factor in the interference of electromagnetic fields using a liquid crystal compensator.* [Mexican Physical Society LXII National Physics Meeting 2019, Villahermosa, Tabasco. (Poster)].

Skills

Languages

■ Strong reading, writing and speaking competencies for English. First language: Spanish.

Scientific computing

Fortran, Latex, Mathematica, Python.

Professional

Academic research, teaching, detail oriented, team player.

Awards and Achievements

- Summer research funding from the graduate school department, The University of Texas at El Paso, to conduct research between July and August of 2021.
- Travel grant from the department of physics, The University of Texas at El Paso, to attend APS March meeting, Chicago, Illinois.

Memberships

Member of American Physical Society (APS).

References

Prof. Koblar A. Jackson
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Central Michigan University,
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