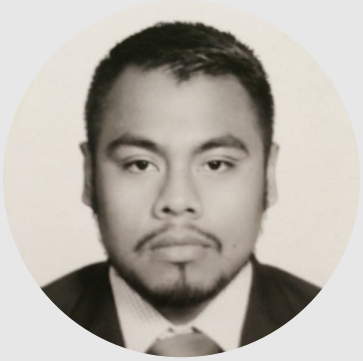

Oscar Ruiz Cigarrillo

PhD. Candidate in Applied Sciences

July 13th 1993

San Luis Potosí, México

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Skills

Linux, MacOs, Windows

Python

Fortran

MATLAB

C++

Mathematica

LaTeX

Julia

C

Languages

English

Spanish

Education

Desde 2017 PhD candidate in Applied Science (Photonics)
Universidad Autónoma de San Luis Potosí, México
"Study of optical anisotropy in coupled quantum wells, a novel source unperturbed systems"

2015-2017 Master degree in Applied Science (Photonics)
Universidad Autónoma de San Luis Potosí, México
"Growth and Characterization of Semiconductor Optical Microcavities"

2011-2015 Bachelor degree in physics engineering
Universidad Autónoma de San Luis Potosí, México
Grade: 9.2/10

Publications

2017 "Optical detection of graphene nanoribbons synthesized on stepped SiC surfaces"
L.F. Lastras-Martínez, J. Almendarez-Rodríguez, G. Flores-Rangel, N.A. Ulloa-Castillo, O. Ruiz-Cigarrillo, C.A. Ibarra-Becerra , R. Castro-García, R.E. Balderas-Navarro, M.H. Oliveira Jr and J.M.J Lopes, *Journal of Applied Physics* 122(3), 035701, (2017)

2017 "Microscopic optical anisotropy of exciton-polaritons in a GaAs-based semiconductor microcavity"
L.F. Lastras-Martínez, E. Cerda-Méndez, N.A. Ulloa-Castillo,R. Herrera-Jasso, L. E. Rodríguez-Tapia, O. Ruiz-Cigarrillo, R. Castro-García, K. Biermann, P. V. Santos. *Physical Review B*, 2017, vol. 96, no 23, p. 235306

2019 "Differential reflectance contrast technique in near field limit: Application to graphene"
L.F. Lastras-Martínez, D. Medina-Escobedo, G. Flores-Rangel, R.E. Balderas-Navarro, O. Ruiz-Cigarrillo, R. Castro-García, M. del P. Morales-Morelos, J. Ortega-Gallegos, M. Losurdo. *AIP Advances*, 2019, vol. 9, no 4, p. 045309

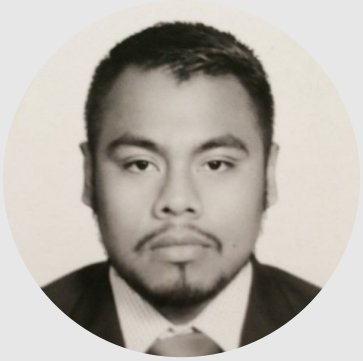
2021 "Optical contrast in the near-field limit for structural characterization of graphene nanoribbons"
G. Flores-Rangel, L.F. Lastras-Martínez, R. Castro-García, O. Ruiz-Cigarrillo, R.E. Balderas-Navarro, L.D.Espinosa-Cuellar A.Lastras-Martínez, J.M.J.Lopes. *AIP Advances*, Volume 536, 15 January 2021, 147710

2021 "Optical anisotropies of asymmetric double GaAs (001) quantum wells"
O. Ruiz-Cigarrillo, L. F. Lastras-Martínez, E. A. Cerda-Méndez, et al. *Physical Review B*, 2021, vol. 103, no 3, p. 035309.

Awards

2017 Third place, Research level in the poster competition Teaching and Research 2017 "Fis. Candelario Pérez Rosales", XVII Week

2018 Third place, Research level in the poster competition Teaching and Research 2018 "Fis. Candelario Perez Rosales", XVIII Semana.



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Skills

Linux, MacOs, Windows

Python

Fortran

MATLAB

C++

Mathematica

LaTeX

Julia

C

Languages

English

Spanish

Experience

2017 — Complex Variable, Electromagnetism
UASLP
Assistant professor

2017 — Creating and Editing Scientific Documents in LaTeX: Basic Course Complex Variable, Electromagnetism
UASLP
Course

2017 — Physics
Secondary level
Professor

2019-2020 — Calculus (Difference and Integral), Physics I, Physics II, Probability and Statistics, Mathematics I (Algebra), Mathematics III (Analytic Geometry)
High School level
Professor

2019-2020 — Programming, Operating Systems, Calculus (Difference and Integral), Physics I, Physics II, Probability and Statistics, Higher Algebra
University level
Professor

Participation National Conferences

2016 — National Physics Congress
Growth and Characterization of Optical Microcavities of (Al,Ga)As.
Poster

2017 — X Annual Meeting of the Quantum Information Division
Advances in III-V microcavity growth for solid-state quantum condensates
Poster

2017 — National Physics Congress
In-situ and real-time optical growth and characterization of (Al,Ga)As microcavities.
National Physics Congress
Talk

2018 — Solid State Division Annual Meeting
Detection of Indirect Excitons in Coupled Quantum Wells Using Photoreflectance
Talk

2019 — Solid State Division Annual Meeting
Study of Indirect Excitons and Trions in coupled asymmetric quantum wells
Poster

Interests

Solid State Physics, Semiconductors, Computational Physics, Light-Matter Interaction, Experimental Physics, Programming, Open-Source Operating Systems, Teaching.