Daniel Galviz

galvizblancod@gmail.com

Curriculum Vitae

EDUCATION

B.Sc in Physics
Summa Cum Laude
University of Los Andes | 2017
Merida, Venezuela

Master Degree in Physics
Universität Bonn| Germany.
BCGS Scholarship Honors Branch
focused on HEP; String Theory and QFT.

SKILLS

PROGRAMMING
• Matlab • Mathematica

LANGUAGES
Spanish: Native.
English: Fluent.
German: Beginner.

WORK EXPERIENCE

TEACHING ASSISTANT

Bachelor level:
• **Electromagnetism**
University of Los Andes (ULA) | 2016
Merida, VE

Master level:
• **Advanced Quantum theory**
Universität Bonn | Winter semester 2018/2019 Bonn, DE
• **General relativity**
Universität Bonn | Summer semester 2019 Bonn, DE
• **Advanced Quantum theory**
Universität Bonn | Winter semester 2019/2020 Bonn, DE
• **Advanced Theoretical Hadron Physics**
Universität Bonn | Summer semester 2020 Bonn, DE

PERSONAL INFORMATION

- Full Name:
  Daniel Eduardo Galviz Blanco
- Date and place of birth:
  August 12th, 1994
  San Cristobal, Venezuela
- Nationality:Venezuelan

RESEARCH INTERESTS

• Mathematical Physics • QFT
• String theory • SCFT

PUBLICATIONS

Partially Massless Theory in Three Dimensions and Self-dual Massive Gravity, D. Galviz, and A. Khoudeir. Modern Physics Letters A. Vol. 33,No. 12, 1850067 (2018).

A New Theory Framework for the Electroweak Radiative Corrections in K_{l3} Decays, C.-Y. Seng, D. Galviz, and U.-G. Meißner. Journals High Energy Phys. 10.1007/JHEP02(2020)069.

Improved K_{e3} radiative corrections sharpen the $K_{\mu 2}$–K_{l3} discrepancy, C.-Y. Seng, D. Galviz, M. Gorchtein and U.-G. Meißner. Accepted in Physical Review D. arXiv:2103.04843 .

High-precision determination of the K_{e3} radiative corrections, C.-Y. Seng, D. Galviz, M. Gorchtein and U.-G. Meißner. Submitted for publication. arXiv:2103.00975.

RESEARCH ASSISTANT | Project: Mathematical Optics
National Autonomous University of Mexico | Aug-Oct 2016 Cuernavaca, MX

- Working on mathematical methods for signal processing, especially with the Wigner Ville distribution for analysing bioacoustic signals. Under the supervision of Prof. Kurt Bernardo Wolf at Institute for Physical Science.

RESEARCH ASSISTANT | Project: Quantum Key Distribution
University of Waterloo | May-Aug 2017 Ontario, CA

- Designing new protocols for optical scenarios in Quantum Key Distribution with quantum information theory. Under the supervision of Prof. Norbert Lütkenhaus at Institute for Quantum Computing.

RESEARCH ASSISTANT| Project: CFT and fusion rules
Universität Bonn | Oct-Dec 2018 Bonn, DE

- Applying CFT techniques to calculate modular transformations and fusion rules of minimal models and orbifolds. Under the supervision of Prof. Albrecht Klemm at Bethe Center for Theoretical Physics.

FULL SCHOLARSHIPS

• **International Center for Theoretical Physics-SAIFR | 2016, São Paulo, BR**
To participate in the 'IFT - Perimeter - SAIFR Journeys into Theoretical Physics'.
During the journeys five theoretical physics topics were covered.

• **Quantum Information Division of the Mexican Physical Society | 2016 MX.**
To perform a research during the summer period with the Theoretical
and Computational Physics group, ICF-UNAM.

• **Undergraduate Research Award by Institute for Quantum Computing | 2017 Waterloo, CA**
To work alongside a faculty member of University of Waterloo during the summer and to participate
in the Undergraduate School on Experimental Quantum Information Processing (USEQIP).

• **Honors Branch Full Scholarship by BCGS for Physics and Astronomy | 2017 Bonn, DE**
To perform a Master program of studies and research between universities of Bonn and Cologne.

• **Research fellowship | September 2020 Bonn, DE**
To research on effective field theories in the context of QFT and Standard Model with Prof. Ulf-G. Meissner.

HONOURS

2011 Honorific Mention bestowed by the Venezuelan Association for the Advancement of Science for the work titled: "Elaboration of a protein and energy drink made from whey cheese obtained in Pasteurizadora Tachira®".
2012 "Luis María Ribas Dávila" Order. For having obtained the greatest academic performance in the School of Chemistry | ULA
2015 "Luis María Ribas Dávila" Order. For having obtained the greatest academic performance in the School of Physics | ULA
2016 "Luis María Ribas Dávila" Order. For having obtained the greatest academic performance in the School of Physics | ULA
2017 "Summa Cum Laude" mention for having earned the B.Sc in physics degree with highest honor| ULA

SELECTED ACTIVITIES

2018	participated	Winter School Geometry, Analysis and Physics |Geilo, NO.
2018	Speaker	Seminar on Matrix model in topological string theory |Bonn, DE.
2019	participated	DESY Summer School in Scattering Amplitudes in Gauge and String Theory |Hamburg, DE.
2019	Speaker	Seminar on SUSY representations in 4d and 11d |Bonn, DE.
2020	participated	YRISW: A Modern primer for Superconformal Field Theories|Hamburg, DE.
2021	participated	Junior Duality and Integrability Workshop.
2021	participated	Modular Forms in String Compactifications |Bonn, DE.
2021	participated	Quantum Gravity and Modularity |Dublin, IE.

OTHER ACTIVITIES

2011	Attendance	First National Meeting of Chemistry| Tachira, VE.
2012	Participated	First Colloquium about Chemical Products and Process |Merida, VE.
2014	Approved	Introduction to Astronomy course |Merida, VE.
2014	Approved	Geometry course |Merida, VE.
2014	Approved	Introduction to Fluid Dynamics course |Merida, VE.
2016	Participated	International Masterclasses Hands on Particle Physics |Merida, VE.
2017	participated	Undergraduate School on Experimental Quantum Information Processing |Waterloo, CA.
2019	participated	BCGS Weekend Seminar |Bad Honnef, DE.
2019	participated	Number Theoretic Methods in Quantum Physics |Bonn, DE.
2020	Invited speaker	HISKP Seminar: New Theory Method for Electroweak Radiative Corrections in K_{l3} Decay|Bonn, DE.