

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 | 2020 Germany.
BCGS Scholarship Honors Branch
focused on HEP; String Theory and QFT.

PHD. CANDIDATE IN MATHEMATICS

Tsinghua University | China.

Ongoing studies at Yau Mathematical
Science Center focused in
Mathematical physics.

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

Daniel Eduardo Galviz Blanco

August 12th, 1994

Nationality: Venezuelan, Colombian

RESEARCH INTERESTS

• Mathematical Physics • String theory • SCFT

PUBLICATIONS

[Inspire HEP](#)

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](#).

High-precision determination of the K_{e3} radiative corrections, C.-Y. Seng, D. Galviz,
M. Gorchtein and U.-G. Meißner. Physics Letters B. [10.1016/j.physletb.2021.136522](#).

Improved K_{e3} radiative corrections sharpen the $K_{\mu 2}-K_{l3}$ discrepancy, C.-Y. Seng, D.
Galviz, M. Gorchtein and U.-G. Meißner. JHEP. [10.1007/JHEP11\(2021\)172](#).

An update on $|V_{us}|$ and $|V_{us}/V_{ud}|$ from semileptonic kaon and pion decays. C.-Y. Seng,
D. Galviz, W. Marciano and U.-G. Meißner. PhysRevD. [PhysRevD.105.013005](#).

Full K_{l3} radiative corrections and implications on $|V_{us}|$, C.-Y. Seng, D. Galviz, M.
Gorchtein and U.-G. Meißner. Soon to appear.

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.



RESEARCH ASSISTANT| PROJECT: NEW FRAMEWORK FOR THE ELECTROWEAK RADIATIVE CORRECTIONS HISKP and BCTP | Sept. 2020 - Sept. 2022 Bonn, DE

- Developing a new theoretical framework for one-loop corrections in effective field theories in the context of QFT/SM. Under the supervision of Prof. U.-G. Meißner 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 2020-2022 Bonn, DE

A New Theory Framework for the Electroweak Radiative Corrections.

•YMSC PhD. Student Scholarship| September 2021-2025 Beijing, CN

To perform a doctoral program of studies and research at Yau Mathematical Science Center, Tsinghua University.

HONOURS

- 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

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| 2016 | Participated | IFT-Perimeter-SAIFR Journeys into Theoretical Physics São Paulo, BR. |
| 2017 | participated | Undergraduate School on Experimental Quantum Information Processing Waterloo, CA. |
| 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. |
| 2020 | Invited speaker | HISKP Seminar: New Theory Method for Electroweak Radiative Corrections in K_{l3} Decay Bonn, 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. |
| 2021 | participated | String Math 2021, IMPA Rio de Janeiro , DE. |
| 2021 | participated | Strings 2021 Natal, BR. |