Pablo Ibieta
Physicist

Contact Details
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Rua Frei Inácio
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São Paulo, Brazil.

Details and Publications
Curriculo Lattes
https://bit.ly/2CXGU8i
in /in/pibieta
🐙 /pibieta

Languages
Spanish: Mother tongue
English: Fluent
Portuguese: Fluent
French: Basic

About me Since 2012, I have worked as a scientific researcher in the area of Mathematical Physics. During this period, I have acquired advanced mathematical knowledge and learned several computational skills concerning data analysis. This involves the manipulation and interpretation of data and the use of statistical tools to compare data to models. In order to complement these skills, basically oriented to industry applications, currently I am focused on the study and development of Python based Data Science and Machine Learning tools.

Experience

Sep 2012 - present
Junior Researcher and Teaching Assistant, Instituto de Física, Universidade de São Paulo (USP). São Paulo, Brazil. Project: *Topological Quantum Field Theories and Topological Phases of Matter* (5 PUBS).

Jan 2018
Visiting Professor, Universidad Mayor de San Andrés, Physics Department. La Paz, Bolivia. Project: *Taught the **Group Theory and Physics** course at the Summer School*

Sep 2005 - Feb 2010
Junior Researcher and Teaching Assistant. Institute for Theoretical Physics, Universidad Mayor de San Andrés, Physics Department. La Paz, Bolivia. Project: *Performed research on Loop Quantum Gravity* (1 PUB).

Education

2015 - 2019
Ph. D. in Physics, Universidade de São Paulo (USP).
São Paulo, Brazil. Thesis: *Topological entanglement entropy and Area Law in Higher Gauge Theories.*

2012 - 2015
M. Sc. in Physics, Universidade de São Paulo (USP)
São Paulo, Brazil. Thesis: *Gauge and Matter Fields on the Lattice*

2004 - 2010
Bachelor in Physics, Universidad Mayor de San Andrés (UMSA).
La Paz, Bolivia. *Entropy of a Rotating Black Hole in LQG.*

Skills

Team Work
Teacher and coordinator of three undergraduate physics courses at USP.
Teaching assistant of several courses at UMSA and USP.
Member of the *Data Science* group at IF-USP.

Software Development
Senior experience using Python, R, C, C++, Mathematica, and SQL.
Experience with deep learning for NLP and Computer Vision.
Familiar with libraries Tensorflow, Keras, sklearn and XGBoost.