




### Contact Details

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### Personal Address

Rua Frei Inácio

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### Details and Publications

Curriculo Lattes

<https://bit.ly/2CXGU8i>

 /in/pibieta

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### Languages

Spanish: Mother tongue

English: Fluent

Portuguese: Fluent

French: Basic

# Pablo Ibieta

## Physicist / Data Scientist

**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, the use of statistical tools to compare data to models and the computation of experimental predictions using simulations. 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.

### Software Development

Senior experience using Python, R, C, C++, Mathematica and MATLAB. Familiar with libraries Tensorflow, Keras, sklearn and XGBoost.