

# Diego Herbin Stalder Díaz

## *PHD in Applied Computing,*

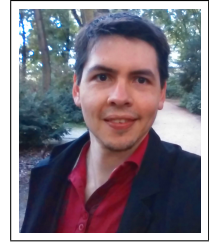
Languages: Spanish, Guarani, Portuguese, English and French

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## Technical skills

**Machine Learning** , *classification, regression, clustering, data augmentation, neural networks, convolutional neural networks* .

**Statistical Methods** , *time series, regression models, hypothesis testing and confidence intervals, principal component analysis, feature selection and Bayesian Inference*.

**Software and Programming Languages** , *C, C++, Python(scikit-learn, numpy, scipy, pandas, tensorflow, Keras), Weka, R, Jupyter, Fortran90, CUDA and Java*.

**Linux**, *Shells, Scripting, and Data Management, High Performance Computing* .

**Databases** , *SQL, SQLite, Hdf5* , Postgres.

## Recent Work Experience

- 2017–Present **Researcher, thesis advisor and lecturer** , *NIDTEC-FPUNA- National University of Asunción, Paraguay, Research Interests:Scientific Computing, Data Science, Galaxy Morphology, Face Recognition with Deep Learning.*  
<http://www.cc.pol.una.py/>
- 2017–Present **Teaching C Programing and Physics**, *Engineering School-National University of Asunción(FIUNA), Paraguay.*  
<http://www.ing.una.py/>
- 2013–2018 **Bayesian Surface Photometry Analysis**, *Develop of a new tool called PyPiGALPHAT (Python Pipelining GALPHAT) to access and analyze efficiently, samples of galaxies images (with thousand objects) in a CPU Cluster, INPE, in a colaboration with UMass, Brazil-USA.*
- 2016 **Modeling Environmental effects on galaxies probed with MAGGIE with Fortran90 and Python**, *Improving and applying MAGGIE to large datasets. MAGGIE is a prior- and halo-based, probabilistic, abundance matching (AM) grouping algorithm for doubly complete subsamples (in distance and luminosity) of flux-limited samples, IAP, France.*

## Education

- 2013-2017 **Phd in Applied Computing**, *National Institute for Space Research (INPE), Brazil.*
- 2016 **Sandwich Research Scholarship**, *Institut Astrophysique de Paris, France.*
- 2011-2013 **Master in Applied Computing**, *National Institute for Space Research (INPE), Brazil.*
- 2004–2010 **Bachelor Degree**, *Electronic Engineering -National University of Asunción, Paraguay.*