


Cristian PEREZ BROKATE

Data Scientist

 cristianpb.github.io

 cristian_brokate at hotmail.com

 Paris, France




Experience

Data Scientist

Kernix

 Jan. 2017 - present

 Paris, France

Develop entire data products and analysis using machine learning tools:

- Prediction models for finance and insurance French companies
- Deep learning models for object detection
- LSTM model for time series prediction
- Build interactive dashboards and web apps using javascript

PhD researcher

Atomic Energy and Alternative Energies Commission (CEA)

 Oct. 2013 - Oct. 2016 (3 years)

 Saclay, France

Corrosion modelling using stochastic methods at a mesoscopic scale

- Description of the morphological evolution of a corroding surface
- Analysis of algorithms with statistical fourier approach
- Computer programming using Python, C and CUDA languages
- Data analysis and visualization using gnuplot and R

R&D engineer

Center for Materials Forming (CEMEF) & ArcelorMittal

 April 2013 - Sept. 2013 (6 months)


 Sophia Antipolis, France

Thermomechanical simulation of the continuous casting for steel using finite elements

- Use of python scripts to optimize simulations
- Analyse of solidification process using Thercast software

Intern R&D

Laboratory of Microstructure and Mechanics of Materials of Metz & Shanghai JiaoTong University

 Feb 2012 - June. 2012 (5 months)

 Metz, France & Shanghai, China

Nanostructured Mg composite synthesized through arc plasma evaporation and high pressure torsion for H-storage application

- Tool design for hyper deformation machine with Catia V5
- Fabrication of test specimens by High Pressure Torsion
- Microstructure analysis and hydrogen storage

Part time

Substitute teacher

 2014 - 2016

 Paris, France

École Nationale Supérieure des Chimie de Paris

Teaching of practical courses on thermodynamics (heat exchangers and centrifugal pumps)

Education

PhD in Physical chemistry

Université Pierre et Marie Curie

 2013-2016

Master in Materials, Processing and Modelling

École Nationale Supérieure des Mines de Paris

 2012-2013

Engineer + Master in Materials and Production

École Nationale d'Ingénieurs de Metz

 2010-2012

Engineer in Mechanical engineering

Universidad Industrial de Santander, Colombia

 2007-2010

Awards

Roberto Rocca Fellowship 2015

Roberto Rocca Education Program

Awarded to exceptional university graduates from developing countries to help fund studies towards the Ph.D. degree at a university outside his home country.

Programming

C, CUDA , Python ,
L^AT_EX, **HTML**, **SQL**,
MATLAB, **R**, **git**,
neo4j , **node** ,
bash, docker , & Linux 

Languages

English 

French 

Spanish 