# Pierre Palud
*PhD Student*

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## PhD Student
*in Signal Processing and Astrophysics*

## Experience

**2020 - now** **PhD Student**, *Centrale Lille, Observatoire de Paris*, France.
Statistic Methods for model inversion and spatial distribution of physico-chemical properties of the molecular cloud Orion B

**2019 - 2020** **Data Scientist (18-month VIE)**, *Leroy Merlin Brasil*, Sao Paulo, Brazil.
First Data Scientist of Leroy Merlin Brasil, I started by adapting and industrializing classic ML projects to the needs of stakeholders from various departments (Marketing, Supply Chain, etc.). With the success of these first projects and the growing demand, I founded a Data Science Guild and developed it by teaching python good practices to some colleagues and by hiring. Our Guild recently participated to a global Adeo Hackathon competition in Lille and presented one of our projects to all Adeo's Business Units.

**2018** **Data Scientist (4-month Internship)**, *La Redoute*, Roubaix, France.
Creation of a sales predicting tool to improve La Redoute's dynamic pricing. I implemented a Seq2Seq model using TensorFlow and industrialized it on Google Cloud Platform.

**2018** **Research Project (6 months)**, *Ecole Centrale Lille and CRIStAL laboratory*.
Individual Project of Research Initiation: *Machine Learning for single-particle X-rays imagery analysis*. Worked on Image Analysis with low signal/noise ratio.

## Education

**2016 - 2019** **École Centrale de Lille - BAC+5 (Master level)**.
Multi-disciplinary engineer degree with specialization in Data Analysis and Decision (DAD). Theoretical and practical advanced-level classes of Mathematics, Statistics, Signal Processing, Programming and Machine Learning.
Project Management MOOC.

**2014 - 2016** **Classe Préparatoire - BAC+2**, *Lycée Clemenceau*, Nantes.

## Skills

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|---|---|
| Data Bases | Google Big Query, PostgreySQL, MongoDB, Oracle, SQL Server |
| Programming | *Advanced*     python (numpy, pandas, sklearn, plotly, tensorflow, etc.), SQL |
| | *Intermediary*    JAVA, LATEX, Bash, Git |

## Languages

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|---|---|
| French | Mother Tongue |
| English | Fluent (TOEIC : 975/990) |
| Portuguese | Fluent |

## Hobbies

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|---|---|
| Theatre | President and stage director of the theatre association of Centrale Lille in 2017/2018 and 2018/2019. Management of 3 groups of actors, Event organisation. |
| Others | Piano, Climbing, Math riddles (Project Euler), Data Science competitions (Kaggle) |