

# LUC Blassel

BIOINFORMATICS PHD STUDENT

Paris FR

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## Experience

### Institut Pasteur

PHD STUDENT

Paris France

Jan 2020 - Now

- **Using machine learning for biological sequence analysis.**
- Funded by the Paris AI Research Institute (PRAIRIE)
- Goal: using deep learning for more accurate context-aware protein sequence alignment
- *More:* [research.pasteur.fr/en/project/applying-machine-learning-to-sequence-analysis-phd-luc-blassel-prairie/](https://research.pasteur.fr/en/project/applying-machine-learning-to-sequence-analysis-phd-luc-blassel-prairie/)

### Institut Pasteur

RESEARCH ENGINEER

Paris France

Apr 2018 - Dec 2019

- **Using machine learning and big data to explore the drug resistance landscape in HIV.**
- Using ML methods to find new Drug resistance mutations
- Presentation of the project at MCEB 2019 conference
- Usage of Snakemake pipelines in a SLURM HPC environment
- *More:* [research.pasteur.fr/en/project/drm-hiv/](https://research.pasteur.fr/en/project/drm-hiv/)

### CapitalData

DATA SCIENTIST INTERN

Paris France

Mar 2017 - Aug 2017

- **Development on automated data validation and anomaly detection pipelines using R, Golang and Python.**
- Usage of R caret and Python scikit-learn libraries
- Internal client-oriented reporting with MySQL, BIME, Periscope and Mode
- *More:* [capitaldata.fr/](https://capitaldata.fr/)

## Education

### Paris Dauphine University

MASTER IN SCIENCE: MACHINE LEARNING

Paris France

Sep 2017 - Aug 2018

- Reinforcement learning
- Data Mining
- Deep learning
- Double diploma with AgroParisTech
- score: 15.58/20 - *More:* [dauphine.psl.eu/formations/masters/informatique/m2-intelligence-artificielle-systemes-donnees](https://dauphine.psl.eu/formations/masters/informatique/m2-intelligence-artificielle-systemes-donnees)

### AgroParisTech

DIPLÔME D'INGÉNIEUR: BIOLOGY - MACHINE LEARNING

Paris France

Sep 2014 - Aug 2018

- Microbiology
- Immunology
- Projects in Java, C and Matlab
- Advanced statistics and linear modeling
- Machine learning
- score: 15.58/20 - *More:* [agroparistech.fr/ufr-info/iocdaa/](https://agroparistech.fr/ufr-info/iocdaa/)

### École Saint Hilaire

NATIONAL COMPETITIVE EXAM: BCPST PREPARATORY CLASS

Paris France

Sep 2011 - May 2014

- ranked 201/1967 (Veto)
- ranked 481/2991 (Agro)
- *More:* [en.wikipedia.org/wiki/Classe\\_preparatoire\\_aux\\_grandes\\_ecoles](https://en.wikipedia.org/wiki/Classe_preparatoire_aux_grandes_ecoles)

## Languages

English **Native**

French **Native**

German **B1** 1 mo. program at Goethe Institute in Germany

Chinese **Intermediate** 5 and 1 mo. programs in Shanghai SISU and Beijing UIR