

LUC Blassel

BIOINFORMATICS PHD STUDENT

Paris FR

☎ +33 6 59 68 91 01 | ✉ luc.blassel@gmail.com | 📷 lucblassel | 🔗 luc-blassel | 🎓 Luc Blassel

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/

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/

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/

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

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:* agroparitech.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

Publications

- Frédéric Lemoine, Luc Blassel, Jakub Voznica and Gascuel Olivier, "COVID-Align: Accurate online alignment of hCoV-19 genomes using a profile HMM", *Bioinformatics* (2020), doi.org/10.1093/bioinformatics/btaa871
- Anna Zhukova, Luc Blassel, Frédéric Lemoine, Marie Morel, Jakub Voznica and Olivier Gascuel, "Origin, evolution and global spread of SARS-CoV-2", *Comptes Rendus. Biologies (Académie des sciences)* (2020), doi.org/10.5802/crbiol.29

Languages

English **Native**
French **Native**
German **B1** 1 mo. program at Goëthe Institute in Germany
Chinese **Intermediate** 5 and 1 mo. programs in Shanghai SISU and Beijing UIR