Luc **Blassel**

PhD Student, interested in Machine learning in Biology

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⌖ Paris, France

Experience

PhD Student, Institut Pasteur, Paris, France   2020–Present
Using machine learning with sequence data. Funded by PRAIRIE and supervized by Rayan Chikhi.
Project page here.

Research Engineer, Institue Pasteur, Paris, France   2018–2020
Using machine learning and large datasets to explore the drug resistance landscape in HIV. Supervized by Olivier Gascuel.
Project page here.

Data Scientist Intern, CapitalData, Paris, France   Mar–Sept 2017
Development of automated data validation and anomaly detection pipelines using R, Golang and Python.

Teaching and tutoring, Freelance, Paris, France   2015–Present
Tutoring in English, mathematics, biology, physics, chemistry and computer science. From middle school to university level.

Education

Masters of Science (M.Sc.), Dep. MIDO, Dauphine université, France   2017–2018
IASD program, courses in Deep learning, reinforcement learning and other machine learning techniques.

Diplôme d'Ingénieur, AgroParisTech, Paris, France   2014–2018
Multi-disciplinary curriculum with courses in biology, statistics, and compute science. Last year specialization in machine learning , IODAA program

BCPST Preparatory class, École Saint-Hilaire, Paris, France   2012-2014
2 year French preparatory class to prepare a nationally ranked exam for entry in the "Grande Écoles"
ranked 201/1967 (Veto), ranked 481/2991 (Agro)

Languages

French: Native proficiency

English: Native proficiency

German: B1 level *(1mo. program at Goethe Institute, Schwäbisch Hall, DE)*

Mandarin Chinese: Intermediate level *(5mo. program at SISU Shanghai CN, and 1mo. program at UIR, Beijing, CN)*

Publications

[1]   Drug Resistance Mutations in HIV: New Bioinformatics Approaches and Challenges
      Luc Blassel, Anna Zhukova, Christian J Villabona-Arenas, Katherine E Atkins, Stéphane Hué, Olivier Gascuel
      Current Opinion in Virology 51 (Dec. 2021), pp. 56–64
      DOI: 10.1016/j.coviro.2021.09.009

[2]   Using Machine Learning and Big Data to Explore the Drug Resistance Landscape in HIV
      Luc Blassel, Anna Tostevin, Christian Julian Villabona-Arenas, Martine Peeters, Stéphane Hué, Olivier Gascuel
      PLOS Computational Biology 17.8 (Aug. 2021), e1008873, Public Library of Science
      DOI: 10.1371/journal.pcbi.1008873

[3]   Origin, evolution and global spread of SARS-CoV-2
      Anna Zhukova, Luc Blassel, Frédéric Lemoine, Marie Morel, Jakub Voznica, Olivier Gascuel
      Comptes Rendus. Biologies (2020), Académie des sciences, Paris
      DOI: 10.5802/crbiol.29

[4]   COVID-Align: Accurate online alignment of hCoV-19 genomes using a profile HMM
      Frédéric Lemoine, Luc Blassel, Jakub Voznica, Olivier Gascuel
      Bioinformatics (Oct. 2020)
      DOI: 10.1093/bioinformatics/btaa871