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, Institut 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, self-employed, Paris, France

2015-Present

Tutoring in English, mathematics, biology, physics, chemistry and computer science. From middle school to university level. Weekly English oral examinations at the ENCPB since Sept. 2021.

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 (Agero)

Languages

French, English: Native proficiency

German: limited working proficiency (1mo. program at Goethe Institute, Schwäbisch Hall, DE)

Mandarin Chinese: Beginner 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. 1, 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. 26, 2021), e1008873, Public Library of Science DOI: 10.1371/journal.pcbi.1008873
- [3] COVID-Align: Accurate Online Alignment of hCoV-19 Genomes Using a Profile HMM Frédéric Lemoine, Luc Blassel, Jakub Voznica, Olivier Gascuel *Bioinformatics* (btaa871 Oct. 12, 2020)

 DOI: 10.1093/bioinformatics/btaa871
- [4] Origin, Evolution and Global Spread of SARS-CoV-2

Anna Zhukova, Luc Blassel, Frédéric Lemoine, Marie Morel, Jakub Voznica, Olivier Gascuel *Comptes Rendus. Biologies* 344.1 (2021), pp. 57–75

DOI: 10.5802/crbiol.29