Hugo Talibart

Bioinformatician

26 years old   📞 +33 6 32 66 85 25   ✉ hugo.talibart@protonmail.com

EDUCATION

November 2017- February 2021

PhD in Computer Science

Dyliss team, Inria, Université de Rennes 1 (France)

supervised by François Coste and Jacques Nicolas

Introduction of an optimal method to align coevolutionary models representing proteins with long-distance dependencies, with application to homology search.

2016 – 2017

Master's Degree in Theoretical Computer Science

Université de Rouen, France

Automata theory, String Algorithms in Bioinformatics

2012 – 2017

Engineering Degree in Mathematics

Institut National des Sciences Appliquées de Rouen (INSA Rouen), France

Artificial Intelligence, Statistics, Operations Research

EXPERIENCE

March - April 2021

Research engineer

Dyliss team, Inria, Université de Rennes 1 (France)

Additional development on the protein sequence alignment method designed during my PhD.

May - October 2017

End-of-studies internship

LITIS Lab, Université de Rouen (France)

supervised by Pierrick Tranouez

Supervised learning of emergent structures in agent-based simulations using convolutional neural networks.

June - September 2016

Stage international

Algorithms & Bioinformatics Team, King's College London (United Kingdom)

supervised by Kathleen Steinhöfel

RNA meta-stable secondary structures clustering.

ARTICLES

- W. Dyrka, M. Pyzik, F. Coste and H. Talibart. "Estimating probabilistic context-free grammars for proteins using contact map constraints". In: *PeerJ* 7 (2019), e6559

COMMUNICATIONS

- H. Talibart and F. Coste. "ComPotts: Optimal alignment of coevolutionary models for protein sequences". In: *JOBIM 2020-Journées Ouvertes Biologie, Informatique et Mathématiques*. 2020
- H. Talibart and F. Coste. "Using residues coevolution to search for protein homologs through alignment of Potts models". In: *CECAM 2019 - workshop on Co-evolutionary methods for the prediction and design of protein structure and interactions*. 2019

SKILLS

Languages
- French – native speaker
- English – fluent (TOEIC: 975/990)
- Spanish – notions

Computer skills
- Python
- C/C++
- LaTeX
- Matlab
- Java
- Bash

MISCELLANEOUS

Science outreach and teaching experience
- *Le Langage comme Inspiration*: short film for the *Sciences en Cour[t]s* 2018 festival
First jury prize and "Audience's favorite" award
- Tutorials for bachelor students: Introduction to computer progamming in Python
2017-2018 (ISTIC, Université de Rennes 1)