

Lisa Chabrier

Ph.D. in bioinformatics

PERSONAL DETAILS

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RESEARCH THEME

Keywords systems biology, single-cell sequencing, Gene Regulatory Network
 differential analysis, gene regulation
Interest My main interest is systems biology, which is giving a new perspective
 to biology for a few decades. I am approaching this discipline from
 the computer scientist perspective and I enjoy finding familiar
 objects such as networks used in the biological context.

PROFESSIONAL EXPERIENCE AND EDUCATION

Ph.D. 2021 - now

DIFFERENTIAL ANALYSIS OF REGULATORY NETWORKS IN MULTI-OMICS DATA

Inria Lyon (previously Inria Grenoble - Rhône-Alpes), BEAGLE Team

TODO

Advisors: Anton CROMBACH, Christophe RIGOTTI, and Sergio PEIGNIER

MASTER'S DEGREE 2019 - 2021

BIOINFORMATICS AND MODELING

Sorbonne Université, Paris

Ranked 1st (first year)

Member of the tutoring group in the second year

awarded with high honours (Is it usefull/understandable ?)

INTERNSHIP 2021 - 6 month

SUBSPACE CLUSTERING OF GENE EXPRESSION DATA

Inria Grenoble - Rhône-Alpes, BEAGLE Team

Using data science tools to speed up the pySCENIC pipeline

Use preprocessing methods to improve the stability of the results

Advisors: Anton CROMBACH, Christophe RIGOTTI, and Sergio PEIGNIER

INTERNSHIP

2020 - 2 month

DETECTION OF FUSION EVENTS AND MEASUREMENT OF EVOLUTIONARY RATES BETWEEN COMPONENTS AND COMPOSITES PROTEINS

University of Crete, Computational Biology Group

Analyzing proteomes looking for fusion events using two algorithms

Implementing an all-in-one pipeline for the team <https://github.com/LisaChabrier/FusionsEvents>

On-site for two months, improving my scientific English skills

Advisor: Ioannis ILIOPOULOS

ACADEMIC PROJECT

2020 - 4 month

CLUSTERING APPROACH ON CLONALLY-RELATED SEQUENCES

Sorbonne Université, Laboratory of Computational and Quantitative Biology

Using clustering methods such as spectral clustering

Performance testing on real data from leukemics patients

Working in Python with Git

Advisor: Juliana SILVA BERNARDES

GAP YEAR

2018 - 2019

TECHNICAL EDITOR IN A CONSULTING FIRM

GAC group, Paris

Accompanied project managers in the writing of technical reports solid redactional skills

Led numerous interviews to gather the technical details

BACHELOR'S DEGREE

2017 - 2018

FUNDAMENTAL COMPUTER SCIENCE

Ecole normale supérieure de Lyon

INTERNSHIP

2018 - 2 month

MOLECULAR COMPUTING WITH DNA ORIGAMI

TAPDANCE team in Inria Paris

Implemented a prototype that is used to design DNA origami

Attended two international conferences: UCNC and MCU in Fontainebleau

Learned how to use an AFM (atomeal force microscope)

Advisor: Pierre-Étienne MEUNIER

TEACHING

INSA Lyon Linux local and distant
2022

INSA Lyon Tutoring the project 4BIM in Software Development
2022