Théotime Grohens

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Education

09/2019 – now	**Ph. D.** **in Computer Science**, *Inria Beagle*, INSA Lyon - Inria, Lyon.
	The goal of my Ph.D. project is to understand the role of epistatic interactions in adaptive evolution. I am focusing on the coupling between gene transcription and the DNA supercoiling gene regulation system. To this end, I use and/or develop artificial evolution platforms, such as **Aevol** and **EvoTSC**, to perform *in silico* evolution experiments.
2018 – 2019	**Master 2** **(M.Sc.) in Life Sciences**, *summa cum laude*.
	Interdisciplinary Master's in Life Sciences (IMaLiS).
2015 – 2017	**Master** **(M.Sc.) in Computer Science**, *cum laude*.
	Parisian Master of Research in Computer Science (MPRI).
2014 – 2015	**Licence** **(B.Sc.) in Computer Science**, *magna cum laude*.
	École normale supérieure and Université Paris 7-Diderot, Paris.
2014 – 2019	**École normale supérieure**, *Computer Science department*, Paris, ranked 2nd.
2012	**Scientific Baccalauréat**, *Lycée Louis-le-Grand*, Paris, mention *Très Bien*.

Publications

ALIFE 2021	Théotime Grohens, Sam Meyer, and Guillaume Beslon. *A Genome-Wide Evolutionary Simulation of the Transcription-Supercoiling Coupling.*
C. R. Acad. Sci. 2020	Stéphane Gaubert et al. *Understanding and monitoring the evolution of the Covid-19 epidemic from medical emergency calls: the example of the Paris area.*
PPDP 2018	José Fragoso Santos, Petar Maksimovic, Théotime Grohens, Julian Dolby, and Philippa Gardner. *Symbolic Execution for JavaScript.*

Talks

Nov. 2021	**CompSysBio 2021**, Aussois.
	The transcription-supercoiling coupling plays an important role in the evolution of genome structure.
Jul. 2021	**ALIFE 2021**, Prague (virtual).
	Presentation of our paper at the ALIFE 2021 conference.
Nov. 2019	**GDR AIEM**, Toulouse.
	How to reduce a genome?

Teaching

Fall 2020 & 2021	**Parallel Programming (TA)**, *INSA Lyon*, 5th year course, 22h.
Fall 2020 & 2021	**C++ Programming (TA)**, *INSA Lyon*, 3th year course, 16h.
Fall 2020	**Tutoring for last-year student projects**, *INSA Lyon*, 5th year course, 10h.
Fall 2019 & 2020	**Introduction to Theoretical Computer Science**, *INSA Lyon*, 4th year course, 12h.
Fall 2019	**Algorithms for Bioinformatics**, *INSA Lyon*, 4th year course, 10h.
2015 – 2017	**Oral examiner**, *Lycée Louis-le-Grand*, Paris, France.
	Training *prépa* students for math oral exams (60 hours a year).

Research Visits

2019 **5-month research internship**, *Department of Zoology*, University of Oxford, Oxford.
An evolutionary approach of defective interfering viral particles.
Supervised by **Prof. Stu West**.

2018 **3-month research internship**, *Department of Computing*, Imperial College, London.
Cosette: Symbolic Execution for JavaScript
Supervised by **Prof. Philippa Gardner**.

2017 **5-month research internship**, *ISIR*, Université Paris 6 (UPMC), France.
Learning conditional cooperation in evolutionary swarm robotics.
Supervised by **Prof. Nicolas Bredeche** and **Prof. Jean-Baptiste André**.

2016 **5-month research internship**, *CUPLV*, University of Colorado, Boulder, USA.
Type-intertwined symbolic analysis of JavaScript programs.
Supervised by **Prof. Bor-Yuh Evan Chang**.

2015 **2-month research internship**, *BEAGLE team*, Inria, Lyon, France.
Introns-Exons in Aevol: specification, implementation, experimental study.
Supervised by **Prof. Guillaume Beslon**.

Industry Experience

2018 **3-month R&D internship**, *Google*, Munich, Germany.
At Google, I worked on **V8**, the JavaScript engine that powers the **Google Chrome** web browser.

2017 – 2018 **5-month R&D internship**, *HireSweet*, Paris, France.
At HireSweet, I built a tool for accurately classifying and labeling e-mails using **ML** techniques.

Languages

French	Native speaker	English	Full professional proficiency
German	Intermediate	Italian	Intermediate

Hobbies

Cultural	Bass and guitar playing, beer brewing (a while ago), cooking.
Sports	Rock climbing, bike riding.