

Curriculum Vitæ

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EXPERIENCE

Postdoctoral research fellow *2021 - 2022*

University of Le Havre, France

| *Subjects* : Components and dense spanners in temporal graphs
| at LITIS, collaborating with Eric Sanlaville

Research and teaching assistant *2020 - 2021*

University of Bordeaux, France

| *Subjects* : Structural and algorithmic geometrical problems
| at LaBRI

EDUCATION

Visiting graduate student *winter 2020*

Simon Fraser University, Vancouver, Canada

| *Subjects* : Gossiping, Influence diffusion, Temporal spanners
| at School of computing, invited by Joseph G. Peters

PhD candidate in Computer Science *2017 - 2020*

École doctorale Mathématiques et Informatique, Bordeaux, France

| *Subject* : Contributions to temporal graph theory and mobility-related problems
| at LaBRI, supervised by Arnaud Casteigts

Master of Theoretical Computer Science *2015 - 2017*

Collège Sciences et technologies, Université de Bordeaux, France

| *Internship* : VectorTSP *summer 2017*
| at LaBRI, supervised by Arnaud Casteigts

Bachelor of Computer Science *2012 - 2015*

Collège Sciences et technologies, Université de Bordeaux, France

| *Internship* : Image processing, network theory and graphical art *summer 2013*
| at LaBRI, supervised by Guy Melançon

PUBLICATIONS

VectorTSP : A Traveling Salesperson Problem with Racetrack-like acceleration constraints

| A. Casteigts, M. Raffinot, J. Schoeters

| Under revision for Discrete Applied Mathematics *2022+*

| 16th Int. Symposium on Algorithms and Experiments for Wireless Sensor Networks *2020*

| **ALGOSENSORS**

Temporal Cliques Admit Sparse Spanners

	A. Casteigts, J.G. Peters, J. Schoeters	
	Journal of Computer Systems and Science, Elsevier (JCSS), Vol. 121, 1-17	2021
	46 th Int. Colloquium on Automata, Languages, and Programming	2019
	ICALP	

SOFTWARE DEVELOPMENT

VectorTSP competition	2021
	Java program computing VectorTSP benchmarks with multiPointAStar algorithm
	available on https://github.com/jschoete/competitionVectorTSP
Estimation, approximation and exact computation of overlapping canopied areas	2021
	Java program computing canopied areas covered by given buffer zone
	with Clément Larue
	available on https://github.com/jschoete/CanopyAreaComputer
Mobility models inducing temporal graph properties	2021
	Java library using JBotSim for inducing temporal graph properties in MANET
	with Arnaud Casteigts
	available on https://github.com/jschoete/mobilitymodels
Automatic analysis of large DNA genotyping data	2020
	Java program analyzing Excel data files for DNA parent/child mismatches
	with Clément Larue
	available on https://github.com/jschoete/mismatchfinder

TALKS

Estimation, approximation and exact computation of overlapping canopied areas		
	<i>Heudiasyc CID seminar</i> , Compiègne, France	April 12 2022
Notes on the maximum number of labels for temporal spanners		
	<i>Temporal graphs seminar</i> , Dagstuhl, Germany (online)	April 28 2021
Contributions to temporal graph theory and mobility-related problems		
	<i>LaBRI PhD defense</i> , Bordeaux, France	March 29, 2021
VectorTSP : A Traveling Salesperson Problem with Racetrack-like acceleration constraints		
	<i>AlgoTel</i> , La Rochelle, France	September 22, 2021
	<i>LITIS RI2C seminar</i> , Le Havre, France	June 15, 2021
	<i>TU Berlin Algorithmics Colloquium</i> , Berlin, Germany (online)	December 8, 2020
	<i>LaBRI distributed algorithms seminar</i> , Bordeaux, France	September 14, 2020
	<i>ALGOSENSORS</i> , Pisa, Italy (online)	September 10, 2020
Racetrack and VectorTSP		
	<i>SFU Theory Seminar</i> , Vancouver, Canada	March 2, 2020
Temporal Cliques Admit Sparse Spanners		
	<i>ROADEF</i> , Lyon, France	February 24, 2022
	<i>LIP6 complex networks seminar</i> , Paris, France	November 10, 2020
	<i>SFU Discrete Maths Seminar</i> , Vancouver, Canada	February 18, 2020

	<i>AlgoTel</i> , Narbonne, France (best student paper award)	<i>June 4 - 7, 2019</i>
	<i>Workshop CoA</i> , Roscoff, France	<i>April 3 - 5, 2019</i>
	<i>LaBRI distributed algorithms and graphs seminar</i> , Bordeaux, France	<i>March 11, 2019</i>
	<i>Journées Graphes et Algorithmes</i> , Grenoble, France	<i>November 14 - 16, 2018</i>

STUDENTS

Esteban Christiann (L3 ENS Paris-Saclay)	<i>summer 2022</i>
	<i>Internship</i> : Dense spanners and related problems
	at LITIS, co-supervised with Eric Sanlaville
Valentin Pasquale (L3 ENS Lyon)	<i>summer 2019</i>
	<i>Internship</i> : Spanners in temporal graphs
	at LaBRI, co-supervised with Arnaud Casteigts

TEACHING (\approx 350 HOURS)

University of Bordeaux		
	Mobility algorithms (2 nd year Master of Networking)	2020-2021
	Automata theory (3 rd year Bachelor of CS)	
	Techniques for algorithms and programming (3 rd year Bachelor of CS)	
	Excel and CS basics (2 nd year Bachelor of Economics and Management)	
	Array algorithms (1 st year Bachelor of Math and CS, course given in English)	
	CS basics (1 st year Bachelor of Math and Science)	
	CS specialty (1 st year Bachelor of Math and Science)	
	Mobility algorithms (2 nd year Master of Networking)	2019-2020
	Array algorithms (1 st year Bachelor of Math and CS)	
	CS basics (1 st year Bachelor of Math and Science)	
	Basic data structure algorithms (2 nd year Bachelor of CS)	2018-2019
	Networking (2 nd year Bachelor of CS)	
	Basic data structure algorithms (2 nd year Bachelor of CS)	2017-2018
	Array algorithms (1 st year Bachelor of Math and CS)	
Bordeaux highschoools		
	MATh.en.JEANS (≈ 14-year-olds)	2018-2019
	Maths à modeler (≈ 17-year-olds)	2017-2018

SERVICE

	AlgoTel : program committee member	<i>2022</i>
	AlgoTel : graph session chair	<i>2021</i>
	Société Informatique de France : member	<i>2020</i>
	AlgoTel : shadow program committee member	
	IWOCA : organizing committee member	
	LaBRI AlgoDist seminar : co-organiser	<i>2019-2021</i>
	PhD student association Afodib : secretary and seminar organizer	<i>2018-2021</i>
	FCT : organizing committee member	<i>2017</i>