

Curriculum Vitæ

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EXPERIENCE

Research associate *2023 - 2026*

University of Cambridge, United Kingdom

| *Subjects* : Behavioural complexity in humans and artificial intelligence
| at Faculty of Economics, collaborating with Peter Bossaerts

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

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

DIPLOMAS

French qualification for associate professor *2023*

Higher education and research ministry, France

PhD 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

Temporally connected components

| S. Balev, Y. Pigné, E. Sanlaville, J. Schoeters
| TBD 2023+

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

| A. Casteigts, M. Raffinot, J. Schoeters
| Under revision for Discrete Applied Mathematics 2023+
| 16th Int. Symposium on Algorithms and Experiments for Wireless Sensor Networks 2020

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
| 46th Int. Colloquium on Automata, Languages, and Programming 2019

TALKS

Temporal graph theory : structure and algorithmics

| *Microeconomics seminar*, Cambridge, United Kingdom 2023+

Temporally connected components

| *TEMPOGRAL seminar*, Poitiers, France November 24 2022
| *Journées Graphes et Algorithmes*, Paris, France November 17 2022

Estimation, approximation and exact computation of overlapping canopied areas

| *Heudiasyc CID seminar*, Compiègne, France April 12 2022
| *Heudiasyc CID seminar*, Compiègne, France April 12 2022

Notes on dense spanners

| *Temporal graphs seminar*, Dagstuhl, Germany (online) April 28 2021

Contributions to temporal graph theory and mobility-related problems

| *LaBRI PhD defense*, Bordeaux, France March 29, 2021

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

| *CITI CHROMA seminar*, Lyon, France May 10, 2022
| *AlgoTel*, La Rochelle, France September 22, 2021
| *LITIS RI2C seminar*, Le Havre, France June 15, 2021
| *TU Berlin Algorithmics Colloquium*, Berlin, Germany (online) December 8, 2020
| *LaBRI distributed algorithms seminar*, Bordeaux, France September 14, 2020
| *ALGOSENSORS*, Pisa, Italy (online) September 10, 2020
| *SFU Theory Seminar*, Vancouver, Canada March 2, 2020

Temporal Cliques Admit Sparse Spanners

| *LITIS RI2C seminar*, Le Havre, France May 31, 2022
| *ROADEF*, Lyon, France February 24, 2022
| *LIP6 complex networks seminar*, Paris, France November 10, 2020
| *SFU Discrete Maths Seminar*, Vancouver, Canada February 18, 2020
| *AlgoTel*, Narbonne, France (**best student paper award**) June 4 - 7, 2019
| *Workshop CoA*, Roscoff, France April 3 - 5, 2019
| *LaBRI distributed algorithms and graphs seminar*, Bordeaux, France March 11, 2019
| *Journées Graphes et Algorithmes*, Grenoble, France November 14 - 16, 2018

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> : Fireworks technique for temporal spanners	
at LaBRI, co-supervised with Arnaud Casteigts	

TEACHING (\approx 350 HOURS)

University of Cambridge	
TBD	<i>2022-2023</i>
University of Bordeaux	
Mobility algorithms (2^{nd} year Master of Networking)	<i>2020-2021</i>
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, 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)	<i>2019-2020</i>
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)	<i>2018-2019</i>
Networking (2^{nd} year Bachelor of CS)	
Basic data structure algorithms (2^{nd} year Bachelor of CS)	<i>2017-2018</i>
Array algorithms (1^{st} year Bachelor of Math and CS)	
Bordeaux highschoools	
MATH.en.JEANS (\approx 14-year-olds)	<i>2018-2019</i>
Maths à modeler (\approx 17-year-olds)	<i>2017-2018</i>

SERVICE

AlgoTel : program committee member	<i>2023</i>
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>
\approx 30 reviews for multiple conferences and journals	<i>2017 - present</i>