

Curriculum Vitæ

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EXPERIENCE

Optimisation Specialist *2025 - Ongoing*

DeepForm Limited, Cambridge, United Kingdom

| *Projects :* Bayesian optimisation, mesh-based graph neural networks, physical simulation

Postdoctoral research fellow *2024 - 2025*

University of Florence, Italy

| *Subjects :* Cycles, enumeration, and DLT/blockchains in temporal graphs
| at DISIA, collaborating with Andrea Marino

Research associate *2023 - 2024*

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

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

| *Research visit :* Simon Fraser University, Vancouver, Canada *winter 2020*
| Gossiping and influence diffusion, invited by Joseph G. Peters

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

SCIENTIFIC PUBLICATIONS

Temporal Spanner Enumeration

| A. Conte, K. Kurita, V. Limouzy, A. Marino, G. Punzi, J. Schoeters, T. Uno
| Conference version submitted 2025+

Edge Coverings of Temporal Vertices and Temporal Matchings

| L. Cioni, R. Dondi, A. Marino, J. Schoeters, A. Silva
| Conference version submitted 2025+

Temporal Cycle Detection and Acyclic Temporization

| J. Araujo, D. de Andrade, A. Ibiapina, A. Marino, J. Schoeters, A. Silva
| Conference version submitted 2025+

On inefficiently connecting temporal networks

| E. Christiann, E. Sanlaville, J. Schoeters
| Journal version TBD 2025+
| 3rd Symposium on Algorithmic Foundations of Dynamic Networks (SAND) 2024

Temporally connected components

| S. Balev, E. Sanlaville, J. Schoeters
| Theoretical Computer Science (TCS) 2024

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

| A. Casteigts, M. Raffinot, J. Schoeters
| Under minor revision for Discrete Applied Mathematics (DAM) Special Edition 2025
| 16th Int. Symposium on Algorithms and Experiments for Wireless Sensor Networks (IWoca) 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 (ICALP) 2019

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

Temporal Cycle Detection and Acyclic Temporization

| *NESTID seminar*, Durham, United Kingdom *November 15 2024*

Learning-based classification and generation of temporal cliques

| *LIPNE complexity seminar*, Cambridge, United Kingdom *April 12 2024*

Knapsack Solution Robustness

| *LIPNE complexity seminar*, Cambridge, United Kingdom *February 16 2024*

On inefficiently connecting temporal networks

| *TEMPOGRAL workshop*, Honfleur, France *February 7 2024*

| *Economic networks seminar*, Cambridge, United Kingdom *December 1 2023*

| *LIPNE complexity seminar*, Cambridge, United Kingdom *October 6 2023*

| *ICALP temporal graph workshop*, Paderborn, Germany *July 10 2023*

Temporal graph theory : structure and algorithmics

| *Microeconomics seminar*, Cambridge, United Kingdom *March 15 2023*

Temporally connected components

| *NESTID seminar*, Durham, United Kingdom *May 4 2023*

| *AlgoDist seminar*, Bordeaux, France *April 24 2023*

| *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*

| *INRAE Biogeco seminar*, Bordeaux, France *December 10 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*

OTHER

Sexual interference revealed by joint study of male and female pollination success in chestnut

C. Larue, E. Klein, R. Petit	
Molecular Ecology	<i>2022</i>
(Contribution through large DNA genotyping data analysis program)	

STUDENTS

Esteban Christiann (L3 ENS Paris-Saclay)

summer 2022

<i>Internship</i> : Dense spanners and related problems
at LITIS, co-supervised with Eric Sanlaville

Valentin Pasquale (L3 ENS Lyon)

summer 2019

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

TEACHING ($\approx$ 350 HOURS)

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 high schools

MATH.en.JEANS ($\approx$ 14-year-olds)	<i>2018-2019</i>
Maths à modeler ($\approx$ 17-year-olds)	<i>2017-2018</i>

SERVICE

ALGOWIN : program committee member	<i>2024</i>
SAND : program committee member	<i>2024</i>
LIPNE complexity seminar : co-organiser	<i>2023-present</i>
AlgoTel : program committee member	<i>2022-2024</i>
ANR TEMPOGRAL : member	<i>2022-2026</i>
IWOCA : organizing committee member	<i>2021</i>
LaBRI AlgoDist seminar : co-organiser	<i>2019-2021</i>
PhD student association Afodib : secretary and seminar organizer	<i>2018-2021</i>
$\approx$ 100 reviews for workshops, conferences, and journals	<i>2017-present</i>