# Curriculum Vitæ

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| **Nationality :** | Belgian | **Office :** | Faculty of Economics office 62, |
| **Date of birth :** | 17/04/1993 | | Cambridge CB3 9DD, |
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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

## 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

**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*
| 46$^{th}$ 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*, Compiegne, France                                      *April 12 2022*
| *Heudiasyc CID seminar*, Compiegne, 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)                                  *summer 2022*
|     *Internship* : Dense spanners and related problems
|     at LITIS, co-supervised with Eric Sanlaville

**Valentin Pasquale** (L3 ENS Lyon)                                            *summer 2019*
|     *Internship* : Fireworks technique for temporal spanners
|     at LaBRI, co-supervised with Arnaud Casteigts

## TEACHING ($\approx$ 350 HOURS)

**University of Cambridge**
|     TBD                                                       *2022-2023*

**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, **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 highschools**
|     MATh.en.JEANS ($\approx$ 14-year-olds)                    *2018-2019*
|     Maths à modeler ($\approx$ 17-year-olds)                  *2017-2018*

## SERVICE

|     AlgoTel : program committee member                       *2023*
|     AlgoTel : program committee member                       *2022*
|     AlgoTel : graph session chair                            *2021*
|     Société Informatique de France : member                  *2020*
|     AlgoTel : shadow program committee member
|     IWOCA : organizing committee member
|     LaBRI AlgoDist seminar : co-organiser                     *2019-2021*
|     PhD student association Afodib : secretary and seminar organizer  *2018-2021*
|     FCT : organizing committee member                        *2017*
|     $\approx$ 30 reviews for multiple conferences and journals  *2017 - present*