Curriculum Vitæ

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Date of birth :	April 17 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

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

On inefficiently connecting temporal networks
| E. Christiann, E. Sanlaville, J. Schoeters
| Journal version TBD *2024+*
| 3rd Symposium on Algorithmic Foundations of Dynamic Networks (SAND) *2024*

Temporally connected components
| S. Balev, Y. Pigné, E. Sanlaville, J. Schoeters
| Under revision for Theoretical Computer Science (TCS) *2024+*

VectorTSP : A Traveling Salesperson Problem with Racetrack-like acceleration constraints
| A. Casteigts, M. Raffinot, J. Schoeters
| Under revision for Discrete Applied Mathematics (DAM) *2024+*
| 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*
| 46^{th} 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`

OTHER

Sexual interference revealed by joint study of male and female pollination success in chestnut
| C. Larue, E. Klein, R. Petit
| Molecular Ecology *2022*
| (Contribution through large DNA genotyping data analysis program)

The number of labels per edge maintaining temporal connectivity
| J. Schoeters
| Dagstuhl seminar "Temporal Graphs : Structure, Algorithms, Applications" *2021*
| (Open problem session)

TALKS

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*, Compiegne, France — *April 12 2022*
| *INRAE Biogeco seminar*, Bordeaux, France — *December 10 2021*

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

Ahmad Raza Khan (Undergraduate IIT Kharagpur) *ongoing 2024+*
| *Project* : Learning-based classification and generation of temporal cliques
| in collaboration with Nitin Yadav

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 (≈ 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, **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 high schools
| MATh.en.JEANS (≈ 14-year-olds) *2018-2019*
| Maths à modeler (≈ 17-year-olds) *2017-2018*

SERVICE

| ALGOWIN : program committee member *2024*
| SAND : program committee member
| LIPNE complexity seminar : co-organiser *2023-present*
| AlgoTel : program committee member *2022-2024*
| ANR TEMPOGRAL : member *2022-present*
| AlgoTel : graph session chair *2021*
| Société Informatique de France : member *2020*
| 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*
| ≈ 70 reviews for multiple workshops, conferences, and journals *2017-present*