

Curriculum Vitæ

| | | | |
|------------------------|---|-----------------------|---------------------------------|
| Name : | Jason Schoeters | Phone number : | +44 7472488591 |
| Nationality : | Belgian | Office : | Faculty of Economics office 62, |
| Date of birth : | April 17 1993 | | Cambridge CB3 9DD, |
| Website : | https://jschoete.github.io | | United Kingdom |
| E-mail : | jason.schoeters.cs@gmail.com | Last updated : | March 25 2024 |

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
- | 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>

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 report of 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*, Compiègne, 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) | <i>ongoing 2024+</i> |
| <i>Project</i> : Learning-based classification and generation of temporal cliques | |
| in collaboration with Nitin Yadav | |
| 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 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 | |
| LIPNE complexity seminar : co-organiser | <i>2023-present</i> |
| AlgoTel : program committee member | <i>2022-2024</i> |
| ANR TEMPOGRAL : member | <i>2022-present</i> |
| AlgoTel : graph session chair | <i>2021</i> |
| Société Informatique de France : member | <i>2020</i> |
| 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 70 reviews for multiple workshops, conferences, and journals | <i>2017-present</i> |