

# Curriculum Vitæ

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## EXPERIENCE

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**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

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**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

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### 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) *2023+*
- | 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<sup>th</sup> Int. Colloquium on Automata, Languages, and Programming (ICALP) *2019*

## SOFTWARE DEVELOPMENT

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### VectorTSP competition

- | Java program computing VectorTSP benchmarks with multiPointAStar algorithm *2021*
- | available on <https://github.com/jschoete/competitionVectorTSP>

### Estimation, approximation and exact computation of overlapping canopied areas

- | Java program computing canopied areas covered by given buffer zone *2021*
- | with Clément Larue
- | available on <https://github.com/jschoete/CanopyAreaComputer>

### Mobility models inducing temporal graph properties

- | Java library using JBotSim for inducing temporal graph properties in MANET *2021*
- | with Arnaud Casteigts
- | available on <https://github.com/jschoete/mobilitymodels>

### Automatic analysis of large DNA genotyping data

- | Java program analyzing Excel data files for DNA parent/child mismatches *2020*
- | with Clément Larue
- | available on <https://github.com/jschoete/mismatchfinder>

## TALKS

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### **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

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<b>Ahmad Raza Khan</b> (Undergraduate IIT Kharagpur)	<i>ongoing 2024+</i>
<i>Project</i> : Learning-based classification and generation of temporal cliques	
at University of Cambridge	
<b>Esteban Christiann</b> (L3 ENS Paris-Saclay)	<i>summer 2022</i>
<i>Internship</i> : Dense spanners and related problems	
at LITIS, co-supervised with Eric Sanlaville	
<b>Valentin Pasquale</b> (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)

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### University of Bordeaux

Mobility algorithms (2 <sup>nd</sup> year Master of Networking)	<i>2020-2021</i>
Automata theory (3 <sup>rd</sup> year Bachelor of CS)	
Techniques for algorithms and programming (3 <sup>rd</sup> year Bachelor of CS)	
Excel and CS basics (2 <sup>nd</sup> year Bachelor of Economics and Management)	
Array algorithms (1 <sup>st</sup> year Bachelor of Math and CS, <b>given in English</b> )	
CS basics (1 <sup>st</sup> year Bachelor of Math and Science)	
CS specialty (1 <sup>st</sup> year Bachelor of Math and Science)	
Mobility algorithms (2 <sup>nd</sup> year Master of Networking)	<i>2019-2020</i>
Array algorithms (1 <sup>st</sup> year Bachelor of Math and CS)	
CS basics (1 <sup>st</sup> year Bachelor of Math and Science)	
Basic data structure algorithms (2 <sup>nd</sup> year Bachelor of CS)	<i>2018-2019</i>
Networking (2 <sup>nd</sup> year Bachelor of CS)	
Basic data structure algorithms (2 <sup>nd</sup> year Bachelor of CS)	<i>2017-2018</i>
Array algorithms (1 <sup>st</sup> 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

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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>