

# Gledel Valentin | Curriculum Vitae

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## Current position

I am currently a postdoctoral fellow at Umeå University in Sweden as a member of the Department of Mathematics and Mathematical Statistics. I obtained my PhD on September the 24th of 2019 and its title is *Vertex covering under constraints*.

## Education

<b>LIRIS - Université Claude Bernard Lyon 1</b> <i>PhD student in theoretical computer science</i> Under the supervision of Eric Duchêne and Aline Parreau	<b>September 2016 – September 2019</b> <i>Lyon</i>
<b>École Normale Supérieure de Lyon (ENSL)</b> <i>2nd year of Master - Theoretical Computer Science specialisation</i>	<b>September 2015 – June 2016</b> <i>Lyon</i>
<b>Technische Universität München (TUM)</b> <i>Semester of Master in Computer Science</i> As part of an Erasmus exchange	<b>April 2015 – August 2015</b> <i>Munich</i>
<b>ENSL</b> <i>1st year of Master - Theoretical Computer Science specialisation</i>	<b>2013–2015</b> <i>Lyon</i>
<b>ENSL</b> <i>3rd year of Bachelor - Theoretical Computer Science specialisation</i>	<b>2012–2013</b> <i>Lyon</i>
<b>Lycée Chateaubriand</b> <i>Higher School Preparatory Classes: MPSI/MP/MP*</i> Admission to the ENS Lyon on competitive exam	<b>2009–2012</b> <i>Rennes</i>

## Work Experience

### Teaching

<b>Lectures and Exercise sessions</b> <i>Teaching assistant</i> Supervising the Graph Theory and Complexity course (giving lectures and exercise sessions) and giving exercise sessions for the Operations Research and Languages and Automata courses	<b>Scholar year 2019/2020 and 2020/2021</b>
<b>Practical and Exercise sessions</b> <i>As part of ACE duties</i> Courses : "Databases and Web programming", "Architecture and systems", "Optimisation and Operational Research", "Algorithmic Imperative programming, Initiation" et "Algorithms and Object Oriented Programming".	<b>Scholar years 2016/2017 to 2018/2019</b>

## Research stays

### Stay at Ljubljana

February 2018 – June 2018

*Strong geodetic number and Maker-Breaker domination game*

Research stay at Ljubljana, in the FMF (Faculty of Mathematics and Physics), which led to collaborations on the subjects of the strong geodetic number and Maker-Breaker domination game. I have worked with Sandi Klavžar and Vesna Iršič and our researches led to four publications.

## Publications and conferences

### Publications in international journals

#### Weighted Total Acquisition

with Guillaume Bagan, Marc Heinrich and Fionn Mc Inerney

<https://doi.org/10.1016/j.dam.2021.07.040>

#### Discrete Applied Mathematics

Décembre 2021

#### Maker-Breaker domination game

with Eric Duchêne, Aline Parreau and Gabriel Renault

<https://doi.org/10.1016/j.disc.2020.111955>

#### Discrete Mathematics

Septembre 2020

#### Maker-Breaker total domination game

with Michael A. Henning, Sandi Klavžar and Vesna Iršič

<https://doi.org/10.1016/j.dam.2019.11.004>

#### Discrete Applied Mathematics

Aout 2020

#### Power domination on triangular grids with triangular and hexagonal shape

with Prosenjit Bose, Claire Pennarun and Sander Verdonschot

<https://doi.org/10.1007/s10878-020-00587-z>

#### Journal of Combinatorial Optimization

Juin 2020

#### Strong geodetic cores and Cartesian product graphs

with Sandi Klavžar and Vesna Iršič

<https://doi.org/10.1016/j.amc.2019.124609>

#### Applied Mathematics and Computation

Décembre 2019

#### Strong geodetic number of complete bipartite graphs, crown graphs and hypercubes

with Vesna Iršič

<https://doi.org/10.1007/s40840-019-00833-6>

#### BMMS

Septembre 2019

#### Maker-Breaker domination number

with Sandi Klavžar and Vesna Iršič

<https://doi.org/10.1007/s40840-019-00757-1>

#### BMMS

Juillet 2019

#### Identification of points using disks

with Aline Parreau

<https://doi.org/10.1016/j.disc.2018.10.002>

#### Discrete Mathematics

Janvier 2019

#### A generalization of Arc-Kayles

with Antoine Dailly and Marc Heinrich

<https://doi.org/10.1007/s00182-018-0639-5>

#### International Journal of Game Theory

Octobre 2018

### Submitted articles

#### Smash and Grab: the 0.6 Scoring Game on Graphs

with Eric Duchêne, Sylvain Gravier Fionn Mc Innerney, Mehdi Mhalla and Aline Parreau 2022

<https://hal.archives-ouvertes.fr/hal-03371099/>

## International conferences.....

**Fast winning strategies for the Maker-Breaker domination game** **LAGOS - Belo Horizonte**  
*avec Sandi Klášar et Vesna Iršič* *June 2019*

**Power domination on triangular grids** **ICGT - Lyon**  
*avec Prosenjit Bose, Claire Pennarun et Sander Verdonschot* *July 2018*

## Talks.....

**Résultats de complexité pour le jeu d'acquisition** **JGA - Bruxelles**  
*with Guillaume Bagan, Marc Heinrich and Fionn Mc Inerney* *November 2019*

**Maker-Breaker Domination Number** **CGTC - Lisbonne**  
*with Sandi Klášar and Vesna Iršič* *January 2019*

**Strong geodetic number and cartesian product** **JGA - Grenoble**  
*with Sandi Klášar and Vesna Iršič* *November 2018*

**Maker-Breaker domination game** **JGA - Bordeaux**  
*with Eric Duchêne, Aline Parreau, Gabriel Renault and Simon Schmidt* *November 2017*

**Weighted Arc-Kayles** **CGTC - Lisbon**  
*with Antoine Dailly and Marc Heinrich* *January 2017*

**Identification of points using disks** **JGA - Paris**  
*with Aline Parreau* *November 2016*

## Miscellaneous

### Scientific popularization.....

**MATh.en.JEANS** **2014-2019**  
*Introduction to research* *with Aline Parreau*  
Interventions in schools to propose research subjects adapted to the level of students and to guide them in their researches.

**Maths à Modeler** **2015-2017**  
*Introduction to research*  
Interventions in classes, at the "Maison des Maths et de l'Informatique de Lyon" (house of mathematics and computer science of Lyon) or during events of the same type as the science festival, to propose small discrete mathematics subjects to students from elementary school to high school.

**Talks** **2017**  
*In the scope of an "Expresso" talk at Lyon 1 and of the french science festival*  
Talks aiming to explain the concept of algorithms to a public of all ages.

### Languages and computer science skills.....

**French:** Native speaker

**English:** Fluent, C1 level

**Computer Languages:** Python, Ocaml, Latex, basics of C++