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Education

- 2017 – 2021  **PhD in Computer Science, University of Bordeaux, France.**
Title: *Reconfiguration problems in graphs.*
Advisors: Marthe Bonamy, Paul Dorbec and Cyril Gavaille.
- 2015 – 2017  **Master of Theoretical Computer Science, University of Bordeaux, France.**
5-months internship at LaBRI under the supervision of Marthe Bonamy and Paul Dorbec, 2017.
Title: *Dominating Set Reconfiguration under Token Sliding.*
8-weeks internship at LaBRI under the supervision of Paul Dorbec, 2016.
Title: *The domination game played on proper interval graphs.*
- 2012 – 2015  **Bachelor of Computer Science, University of Bordeaux, France.**
9-weeks internship at Inria under the supervision of Brett Ridet, 2014.
Title: *Spatial Augmented Reality: multi-tracking and 3D rendering.*

Publications





International conferences

- [1] M. Bonamy, P. Ouvrard, M. Rabie, J. Suomela and J. Uitto, ‘Distributed recoloring’, in *32nd International Symposium on Distributed Computing (DISC 2018)*, 2018, 12:1–12:17.
- [2] A. Blanché, H. Mizuta, P. Ouvrard and A. Suzuki, ‘Decremental optimization of dominating sets under the reconfiguration framework’, in *Combinatorial Algorithms - 31st International Workshop, IWOCA 2020, Bordeaux, France, June 8-10, 2020, Proceedings*, 2020, pp. 69–82.
- [3] N. Bousquet, T. Ito, Y. Kobayashi, H. Mizuta, P. Ouvrard, A. Suzuki and K. Wasa, ‘Reconfiguration of spanning trees with many or few leaves’, in *28th Annual European Symposium on Algorithms, ESA 2020, September 7-9, 2020, Pisa, Italy (Virtual Conference)*, 2020, 24:1–24:15.
- [4] N. Bousquet, A. Joffard and P. Ouvrard, ‘Linear transformations between dominating sets in the TAR-model’, in *31st International Symposium on Algorithms and Computation, ISAAC 2020, December 14-18, 2020, Hong Kong (Virtual Conference)*, 2020.
- [5] N. Bousquet, T. Ito, Y. Kobayashi, H. Mizuta, P. Ouvrard, A. Suzuki and K. Wasa, ‘Reconfiguration of spanning trees with degree constraint or diameter constraint’, in *39th International Symposium on Theoretical Aspects of Computer Science, STACS 2022, March 15-18, 2022, Marseille, France (Virtual Conference)*, 2022, 15:1–15:21.

International journals

- [6] M. Bonamy, P. Dorbec and P. Ouvrard, ‘Dominated sets reconfiguration under token sliding’, *Discrete Applied Mathematics*, vol. 301, pp. 6–18, 2021, ISSN: 0166-218X. DOI: <https://doi.org/10.1016/j.dam.2021.05.014>.

Talks in conferences

- November 2019  **Journées Graphes et Algorithmes 2019 (Brussels).**
Title: *Distributed 3-recoloring on trees.*
- November 2018  **Journées Graphes et Algorithmes 2018 (Grenoble).**
Title: *The price of connectivity for domination.*
- July 2018  **10th International Colloquium on Graph Theory (Lyon).**
Title: *The price of connectivity for domination.*
- November 2017  **Journées Graphes et Algorithmes 2017 (Bordeaux).**
Title: *Dominating set reconfiguration under token sliding.*

Talks in conferences (continued)

July 2017 📧 **26th British combinatorial conference (Glasgow)**
Title: *Dominating set reconfiguration under token sliding.*

Teaching

- 2021 – 2022 **UF Informatique, University of Bordeaux, 193h.**
- Applied algorithmics, M2. TD, 24h.
 - Algorithmiques des graphes, L3. TD, 32h.
 - Programmation C, L2 Math-Info. Cours intégré et TP, 36h.
 - Informatique pour l'économie et la gestion, L2 (UF Économie, AES, Gestion). TD, 24h.
 - Projets technologiques, L2. TP, 29h.
 - Algorithmique des tableaux, L1. TP, 16h.
 - Projet technologique, L1. TD et TP, 32h.
- 2020 – 2021 **UF Informatique, University of Bordeaux, 180h.**
- Calculabilité et complexité, M1. TD, 24h.
 - Algorithmiques des graphes, L3. TD, 32h.
 - Programmation orientée objet, L3. TP, 32h.
 - Algorithmique des structures de données élémentaires, L2. TD, 8h.
 - Initiation à la programmation C, L1. Cours intégré et TP, 36h.
 - Gestion des données, L3 (UF Économie, AES, Gestion). TD, 48h.
- 2019 – 2020 **UF Informatique, University of Bordeaux, 64h.**
- Informatique, L1. Cours intégré, 32h.
 - Algorithmique des structures de données élémentaires, L2. TP, 8h.
 - Techniques algorithmiques et programmation, L3. TD et TP, 25h.
- 2018 – 2019 **UF Informatique, University of Bordeaux, 64h.**
- Informatique, L1. Cours intégré, 32h.
 - Techniques algorithmiques et programmation, L3. TD et TP, 32h.
- 2017 – 2018 **IUT informatique, University of Bordeaux, 62h.**
- ACSI Méthodes systémiques, DUT2. Cours intégré, 14h.
 - Programmation orientée objet, DUT1. TP, 20h.
 - Conception orientée objet, DUT1. Cours intégré, 28h.
- 2015 – 2017 **Computer science tutoring**
Tutoring for first and second year Bachelor students in computer science. Around 37 hours.
- 2016 **Master 1 tutoring**
Tutoring for first-year Master students in the course “Calculability and Complexity”. 18 hours.
- Practical lessons teaching assistant**
Teaching assistant during the first sixth practical lessons of the course “Introduction to computer science” (first year of Bachelor). 8 hours.

Other research activities

- Review **Reviewer for:**
- European Journal of Combinatorics;
 - Discrete Applied Mathematics;
 - Information Processing Letters;
 - International Computing and Combinatorics Conference (COCOON);
- Seminar I used to be in charge with Marthe Bonamy of the Graphs and optimization research group seminar in 2018.

Other research activities (continued)

Conferences	I took part in the organization of JGA 2017 (in Bordeaux, France) and CoRe 2019 (in Aussois, France).
Administration	Elected as: <ul style="list-style-type: none">• Representative of computer science PhD students at the doctoral school council (2017 – 2020).• Secretary of the Computer Science PhD students' association, namely AFoDIB (2017 – 2019).
Popularization	I am Member of Maths à modeler (since 2017) and MATH.en.JEANS (since 2018). In this context, I facilitated working groups for high school students or scientific popularization events.