

Publications

- Approximating maximum integral multiflows on bounded genus graphs**, with Chien-Chung Huang, Claire Mathieu and Jens Vygen, submitted to ESA 2020.
- An Approximation Algorithm for Fully Planar Edge-Disjoint Paths**, with Chien-Chung Huang, Claire Mathieu, Kevin Schewior and Jens Vygen, submitted to SIDMA.
- STACS 2020 **Fixed-parameter algorithms for Unsplittable Flow Cover**, with Andrés Cristi and Andreas Wiese.
- SODA 2020 **Ultimate greedy approximation of independent sets in subcubic graphs**, with Piotr Krysta and Nan Zhi.
- APPROX 2019 **Maximizing Covered Area in the Euclidean Plane with Connectivity Constraint**, with Chien-Chung Huang, Claire Mathieu, Joseph S. B. Mitchell and Nabil H. Mustafa.

Education

- 2017-2020 **PhD student in Theoretical Computer Science**, *École Normale Supérieure (ENS) • team TALGO*, Paris, defence : September 2020.
Supervising by Chien-Chung Huang and Claire Mathieu - Design and analysis of algorithms
- 2016-2017 **Master Parisien de Recherche Opérationnelle - Master 2 (with honors, 15.2/20)-Operational research**, • CNAM • Paris Saclay • ENSTA • ENPC • Ecole Polytechnique, Paris.
Mathematical programming, Graph Theory, Stochastic Optimization, Metaheuristics, Complexity Theory, Approximation Algorithm, Queueing Theory, Scheduling, ...
- 2015-2016 **Agrégation de Mathématiques option Informatique • Master MEEF**, Rennes.
rang : 34^e
- 2014-2015 **Master 1 - Mathematics (with honors, 14.3/20)**, • Ecole Normale Supérieure de Rennes • Université de Rennes 1, Rennes.
Topics : Number Theory, Differential Geometry, function analysis, Galois Theory, Statistics, Complex functions, Elliptic differential equations, Algebraic Topology, Group theory, Complexity theory, Logic, english.
- 2013-2014 **Three-year university Degree (Mathematics) (with honors, 15.1/20)**, • Ecole Normale Supérieure de Rennes • Université de Rennes 1, Rennes.
Topics : Group Theory, Rings and Arithmetic, Topology, Differential Equations, Lebesgue theory of integration, Probability, Complex analysis, Distributions, Fourier analysis, Infinitesimal calculus.
- 2013-2014 **Three-year university Degree (Computer Science) (13.4/20)**, • Ecole Normale Supérieure de Rennes • Université de Rennes 1, Rennes.
Topics : Programming, formal language, Logic, Algorithms, Algorithms on graphs, peer-to-peer networks.
Programming works (french) : [Tour d'Hanoi et flocon de Koch](#) (OCaml), [Triangulation de Delaunay](#) (OCaml), [Lancer de rayons](#) (C++).
- 2012-2013 **Classe préparatoire aux grandes écoles : MP***, • Lycée Masséna, Nice.
TIPE (french) : Optimisation de l'aire et du périmètre des polygones inscrits dans une ellipse/ Petit et grand théorèmes de Poncelet. ([link](#))
- 2011-2012 **Classe préparatoire aux grandes écoles : MPSI**, • Centre International de Valbonne, Sophia-Antipolis.

2011 **Baccalauréat (Scientist) Mathematics.**, • *Lycée Amiral de Grasse*, Grasse.
with honors, 15.3/20

Experiences

Teaching

2017-2020 **Professor assistant**, *UPMC and Université Paris-Diderot*, Paris, Classes : Maths basics (1st year, 60h) — Graphs and Combinatorics (2nd year, 30h) — Arithmetic and Cryptography (2nd year, 30h),— Introduction of Algorithms (Master Bio-info, 12h)— Python (second year, 60h).

2015–2018 **Oral examiner (mathematics) in “classes prépa” MP**, *Lycée Chateaubriand*, Rennes, *Lycée Saint-Louis*, Paris, 2h/week.

Research internships

Feb/June 2019 **Universidad de Chile**, with *José Corrúa and Andreas Wiese*, I worked on problems in Algorithmical Game Theory and FPT Algorithms.

April/July 2017 **University of Liverpool**, with *Piotr Krysta*, Approximation Algorithms, [report](#) 18.5/20.

May/June 2015 **University of Cape Town**, with *David Erwin*, Graph theory and Algorithms for Coloring, [report](#).

May/July 2014 **Université de Lille**, with *david Chataur*, Algebraic Topology – Structure, Graphs and Algorithms, [report](#).

Talks/Seminars

, — *SODA*, Jan 2020 – Seminar at the Research Institute for Discrete Mathematics, University of Bonn, Dec 2019 – Seminar Talgo ENS, Dec 2019 — *APPROX*, sept 2019 — Seminar *LIP6*, UPMC, Paris, sept 2019 — Seminar Talgo ENS, Sept 2019 — Seminar Universidad de Chile, March 2019 — Finalist Best Master Talk, *ROADEF* Jan 2018 — Talk at *GT CoA*, Lyon, Nov 2017.

Grants and Awards

July 2013 **Normalien scholarship**, • *École Normale Supérieure de Rennes* • Computer science selective exam, Rank : 1.

July 2017 **CDSN PhD scholarship**, • *École Normale Supérieure (Paris)* • .

January 2018 **ROADEF 2018**, Finalist of the Best Master Thesis award in *Optimisation/Operations Research*.

Languages

French	first language	English	Bilingual (TOEIC : 820)
Spanish	good level		

Computer

Programming	Python, C/C++, OCaml
Edition	LaTeX, HTML, CSS
Image/sound	Photoshop, Cubase, Premiere

Some hobbies

Sport	Slackline, hiking, cycling, diving, snowboard.
Music	Guitar, tenor sax, flute, jazz piano, traditional music from Provence.
Others	tinkering, photography, cooking, game of Go.