

Emmanuel RODRIGUEZ

PhD at INRIA Grenoble Rhône-Alpes

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Education

- 2020-now **PhD in Computer Science**, *Université Grenoble Alpes/LJK/INRIA*
Direct and inverse modeling of laser-cut meta-materials
- 2017-2020 **Master's Degree in Computer Science**, *École Normale Supérieure de Lyon*
Theoretical computer science
- 2013-2016 **Classes Préparatoires PCSI-PC***, *Lycée Champollion, Grenoble*
2013 **High School Diploma in Science**, *J.B. Dumas, Alès*

Publication

- June 2022 **Computational Design of Laser-Cut Bending-Active Structures**,
Emmanuel Rodriguez, Georges-Pierre BONNEAU, Stefanie HAHMANN and Méлина SKOURAS,
Computer-Aided Design, 103335
Best Paper of the Symposium on Solid and Physical Modeling 2022 conference

Teaching (tutorials)

- 2021, 2022 and 2023 **ENSIMAG**, *Basic Numerical Methods*, 33h
L3, second semester
- 2021 and 2022 **UGA (PeiP: Polytech integrated preparatory cycle)**, *Automata and Languages*, 27h
L2, first semester

Research Internships

- 2020 **Direct and Inverse Modeling of Laser-cut Meta-materials**, *INRIA*, Grenoble, 5 month
Internship directors : Méлина SKOURAS , Stefanie HAHMANN and Georges-Pierre BONNEAU
- 2018 **Analysis of Bank Conflicts in GPU's**, *University of Hawaii at Manoa, USA*, 3 month
Internship director : Nodari SITCHINAVA
- 2017 **Tools for the Analysis of Large Random Systems**, *LIG*, Grenoble, 6 week internship
Internship director : Nicolas GAST

Computer science and Programming skills

- Fields Inverse Design, Physical-based modeling, Algorithmic, Probability, Computer's architecture, Deep Learning Languages C, C++, Python, Caml, Java, Html, PhP
- OS Linux, Windows Tools Git, L^AT_EX, Visual Studio Code.

Languages

- French Native
English Level B2 at the Cambridge Advanced
Spanish Level A2, LV2 in college

Hobbies

- Musical instrument Guitar
Sport Racing Bike, Hiking, Ski touring