

## Education

- July 1st 2025 **PhD defence**, UGA, INRIA, LJK, France  
2021–2025 **PhD thesis**, UGA, INRIA, LJK, France  
2017–2021 **Diplome de l'ENS de Lyon**, ENS de Lyon, France  
2018–2020 **Master Degree in Computer Science**, ENS de Lyon, France, Mention Très Bien  
2017–2018 **Bachelor Degree in Computer Science**, ENS de Lyon, France, Mention Bien  
2017–2018 **Bachelor Degree in Mathematics**, Université Claude Bernard, France  
2014–2017 **Classe préparatoire, MPSI/MP\***, Lycée Kléber, France  
2014 **Baccalauréat Série S Sciences de l'ingénieur Section européenne**, Lycée Jean-Jacques Henner, France, Mention Très Bien

## Internships

- April. 21–July 21 **Research Internship**, *d'Alembert Institute*, France, supervised by Sébastien Neukirch  
4 months Drops on fibre, how big can it go ? Modelisation of droplet hanging from thin fibre to test an experimental observation
- Sept. 20–Mars 21 **Research Internship**, *INRIA Grenoble*, France, supervised by Florence Bertails–Descoubes and Thibaut Métivet  
6 months Simulation of elastic fibre flow : Extension of a 2D elastic fibre simulator to account for fibre/fibre contact.
- Jan. –June 2020 **Research Internship**, *LIRIS*, France, supervised by Nicolas Bonneel, Julie Digne and Bruno Lévy  
6 months Lagrangian Simulation of Navier-Stokes Fluid with Free Surfaces : Extension of an inviscid fluid solver based on the theory of optimal transport to model buckling effects.
- May–July 2019 **Research Internship**, *JAIST*, Japan, supervised by Mizuhito Ogawa  
3 months Windows API call impact on path condition : Study of the impact of external calls to the path condition during dynamic symbolic execution.
- June 2018 **Research Internship**, *INRIA Nancy*, France, supervised by Bruno Lévy  
7 weeks Numerical fluid simulation using power diagrams : Applying results of the optimal transport theory to the Lagrangian modelisation of fluids.

## Languages

- French Mother tongue  
English C1 - Cambridge Advanced Exam  
German B1 - Deutsches Sprachdiplom  
Japanese A2

## Computer skills

- Programming C, C++ (Eigen), Python (numpy, scipy)  
Tools  $\LaTeX$ , Git

## Publications

- July 2024 **Contact detection between curved fibres : high order makes a difference**, O. Crespel\*, E. Hohnadel\*, T. Métivet, F. Bertails-Descoubes, ACM Trans. Graph. 43, 4, Article 132, 23 pages  
\*These authors contributed equally.
- August 2023 **Randomly stacked open cylindrical shells as functional mechanical energy absorber**, T. G. Sano\*, E. Hohnadel\*, T. Kawata, T. Métivet, F. Bertails-Descoubes, Communications Materials, 4(1) :59  
\*These authors contributed equally.

## Conferences and seminars

- 7-11 July 2025 **Accurate frictional contact algorithms for the numerical exploration of the mechanics of fibrous assemblies**, *ESMC Lyon*, E. Hohnadel, O. Crespel, T. G. Sano, T. Métivet, F. Bertails-Descoubes
- 28 July 2024 - **Contact detection between curved fibres : high order makes a difference**,  
1 August 2024 *Siggraph 2024*, O. Crespel, E. Hohnadel, T. Métivet, F. Bertails-Descoubes
- 18-20 Mars 2024 **High order contact detection between fibres**, *Rencontre du Non Linéaire 2024*, E. Hohnadel, O. Crespel, T. Métivet, F. Bertails-Descoubes
- 22-26 September 2023 **Accurate contact detection and response in fibre assemblies with friction**, *Highly Flexible Slender Structure 2023*, E. Hohnadel, O. Crespel, T. Métivet, F. Bertails-Descoubes
- 6-7 July 2023 **Randomly stacked open cylindrical shells as functional mechanical energy absorber**, *Groupe de travail "Animation & Simulation"*, E. Hohnadel, T. G. Sano, T. Kawata, T. Métivet, F. Bertails-Descoubes
- 16-19 October 2022 **Investigating the compaction of open ring stacks through real and numerical experiments**, *Graphyz 2*, E. Hohnadel, T. G. Sano, T. Kawata, T. Métivet, F. Bertails-Descoubes
- 10 October 2022 **Frictional three-point bending test : disentangling the role of friction through real and numerical experiments**, *GdR Méphy : Friction & Slender Structures*, E. Hohnadel, J. Marthelot, I. Andrade-Silva, T. Métivet, O. Pouliquen, F. Bertails-Descoubes
- 7-11 July 2022 **Investigating the compaction of open ring stacks through real and numerical experiments**, *ESMC Galway*, E. Hohnadel, T. G. Sano, T. Kawata, T. Métivet, F. Bertails-Descoubes
- 7-11 July 2022 **Frictional three-point bending test : disentangling the role of friction through real and numerical experiments**, *ESMC Galway*, E. Hohnadel, J. Marthelot, I. Andrade-Silva, T. Métivet, O. Pouliquen, F. Bertails-Descoubes  
(speakers underlined)

## Teaching

- September 2023– **Automata and languages**, *UGA*  
January 2024 L2 tutorial classes
- September 2021– **Automata and languages**, *UGA*  
January 2022 L2 tutorial classes