

Yoann Coudert--Osmont

Curriculum Vitæ

✉ yoann.coudert-osmont@ens-lyon.fr

🌐 perso.ens-lyon.fr/yoann.coudert-osmont/ • 🌐 nanored4498

Education

Inria, PIXEL Team

PhD in Computer Science supervised by Dmitry Sokolov and Nicolas Ray

📖 2.5D Frame Fields for Hexahedral Meshing

Nancy

2021-2024

ENS de Lyon

Elève de l'École Normale Supérieure de Lyon

Computer Science Department, 30th in the entrance exam

L3 et M1 d'Informatique Fondamentale + une année de stages

Lyon

2017-2021

ENS Paris-Saclay

Master 2, Mathématiques Vision et Apprentissage (MVA)

Master's degree in mathematics, vision and learning

Cachan

2019-2020

Université Lyon 1

Licence de Mathématiques pour les Formations d'Ingénieur

BSc in mathematics

Lyon

2017-2018

Lycée Clemenceau

*Classe Préparatoire aux Grandes Écoles, MPSI / MP**

Nantes

2015-2017

Internships

University of Bern, Computer Graphics Group

Research Internship, supervised by David Bommes

📖 Quad Mesh Quantization Without a T-Mesh

Bern, Switzerland

March-June 2021

Inria, MFX Team

Research Internship, supervised by Sylvain Lefebvre

📖 Closed space-filling curves with controlled orientation for 3D printing

Nancy, France

September 2020-February 2021

Inria, PIXEL Team

Research Internship, supervised by Dmitry Sokolov and Nicolas Ray

📖 Generation of hexahedral meshes using 2.5D framefields

Nancy, France

April-August 2020

TU Delft, Computer Graphics and Visualization group

Research Internship, supervised by Elmar Eisemann and Ricardo Marroquim

📖 Implementation of a graphical interface to check the perspective quality in paintings

Delft, Netherlands

May-July 2019

LIRIS, Université Lyon 1

Research Internship, supervised by David Coeurjolly and Nicolas Bonneel

📖 Use of optimal transport for the interpolation of tangent vector fields

Lyon, France

June-July 2018

Publications

2.5 D Hexahedral Meshing for Reservoir Simulations

David Lopez, Yoann Coudert-Osmont, David Desobry, Alexandre Benedicto, Wan-Chiu Li, Cédric Borgese, Nicolas Ray, Dmitry Sokolov, Jeanne Pellerin
Mathematical Geosciences

2024

Quad Mesh Quantization Without a T-Mesh

Yoann Coudert-Osmont, David Desobry, Martin Heistermann, David Bommès, Nicolas Ray, Dmitry Sokolov
Computer Graphics Forums

2024

PACE Solver Description: Touiuidth

Gaétan Berthe, Yoann Coudert-Osmont, Alexander Dobler, Laure Morelle, Amadeus Reinald, Mathis Rocton
IPEC 2023-18th International Symposium on Parameterized and Exact Computation

2023

Semi-Automatic Perspective Lines from Paintings

Yoann Coudert-Osmont, Elmar Eisemann, Ricardo Marroquim
Eurographics Workshop on Graphics and Cultural Heritage

2022

Closed space-filling curves with controlled orientation for 3D printing

Adrien Bedel, Yoann Coudert-Osmont, Jonàs Martínez, Rahnuma Islam Nishat, Sue Whitesides, Sylvain Lefebvre
Computer Graphics Forum

2022

PACE Solver Description: DreyFVS

Gabriel Bathie, Gaétan Berthe, Yoann Coudert-Osmont, David Desobry, Amadeus Reinald, Mathis Rocton
17th International Symposium on Parameterized and Exact Computation (IPEC 2022)

2022

Designing 2D and 3D Non-Orthogonal Frame Fields

David Desobry, Yoann Coudert-Osmont, Etienne Corman, Nicolas Ray, Dmitry Sokolov
Computer-Aided Design

2021

Teaching

Faculté des Sciences et Technologies de Nancy

Nancy

Assistant Professor

2021-2024

- M1 - Représentation des données visuelles
- L3 - Système 2
- L2 - Système 1
- L2 - Outils Système
- L1 - Méthodologie de programmation et de conception avancée

Mines de Nancy

Nancy

Professor/Coach

2023-2024

Training two teams in competitive programming for the SWERC

Competitive Programming

Meta Hacker Cup <i>Ranked 215th in round 3 (~ 20k contestants)</i>	Online 2023
Google Code Jam <i>Ranked 365th in round 3 in 2021 (~ 37k contestants)</i>	Online 2019-2021
Google Hash Code <i>World finalist and ranked 18th with the team Quiche LORIAinne in 2022 (~ 10k teams)</i>	Online 2018-2022
Reply Code Challenge <i>Ranked 14th with team Quiche LORIAinne in 2024 (~ 1.8k teams)</i>	Online 2023-2024
TON Block Validation Challenge <i>Winner (goal: optimize the code of The Open Network blocks validation)</i>	Online 2025
ICPC - SWERC <i>South-Western Europe Regional Contest, Ranked 16th with the team UL1 in 2021</i>	Paris, Paris, Milan 2018, 2019, 2021
ICPC Online Challenge <i>Ranked 2nd in 2023 and 16th in 2024 (~ 2.3k contestants)</i>	Online 2023-2024
ICPC Challenge Championship <i>Ranked 3rd</i>	Dongguan, China 2023
Huawei Tech Arena <i>Ranked 3rd in 2023 and winner in 2024</i>	Paris 2023-2024
Master Dev de France <i>Ranked 2nd in 2019 and 4th in 2023 (~ 1.2k contestants)</i>	Paris 2019, 2023
Tech Challenger <i>Ranked 2nd (~ 3k contestants)</i>	Paris 2023
Le Shaker Coding Battle <i>French algorithmic contest, ranked 2nd in 2021 and 2022 (~ 2k contestants)</i>	Online 2021-2022
BattleDev <i>French algorithmic contest, ranked 2nd (~ 3k contestants)</i>	Online 2021
Prologin <i>Ranked 6th in 2018 and 2019</i>	Paris 2017-2019
TRACS <i>French cybersecurity contest, Winner with the team Les Petits LU (105 teams)</i>	Paris 2022
KIRO <i>Winner</i>	Paris 2023
Code on Time <i>Winner in 2023 and 2024 (384 contestants)</i>	Online 2023-2024

Technical Skills

Programming: C/C++, PYTHON, OCAML, JAVA

Tools: L^AT_EX, GIT, LINUX / UNIX