

DAVID JOURDAN

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Education

PhD in Computer Science – Université Côte d’Azur 2018–2022

Advisors: Adrien Bousseau and Mélina Skouras

Topics: Computational fabrication, geometry processing

MSc in Computer Science – Télécom Paris 2015–2018

Institut Polytechnique de Paris

Topics: Computer graphics, applied mathematics

Classes Préparatoires MPSI/MP* – Lycée Chateaubriand 2013–2015

Rennes, France. Intensive training in mathematics and physics.

Experience

Teaching assistant – Polytech Nice 2019–2022

Classes taught: Imperative programming (Python), Data structures and algorithms (Java)

Research Intern – Inria Sophia-Antipolis March – Aug 2018

Advisors: Adrien Bousseau and Mélina Skouras

Publications

Computational Design of Self-Actuated Surfaces by Printing Plastic Ribbons on Stretched Fabric

David Jourdan, Mélina Skouras, Etienne Vouga, Adrien Bousseau

Eurographics 2022 (conditionally accepted)

Printing-on-Fabric Metamaterial for Self-Shaping Architectural Models

David Jourdan, Mélina Skouras, Etienne Vouga, Adrien Bousseau

Advances in Architectural Geometry 2020

Optimizing Support Structures for Tensile Architecture

David Jourdan, Mélina Skouras, Adrien Bousseau

Journées Françaises d’Informatique Graphique 2018

Programming skills

Open-Source contributions

Fabsim: A simple C++ library written in C++ for simulating rods, membranes and shells

Optim: An optimization library for solving nonlinear problems. Contains Newton method and LBFGS

Languages

C++, Python, JavaScript, Java

Technologies

Eigen, CMake, Catch2, P5.js

Personal

Languages

French (native), English (fluent)

Music

Jazz trombone (conservatory of Nice)