RAPHAËL CHARRONDIÈRE

Ph. D. Student

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PH. D.

Ph. D.

Université Grenoble Alpes, Inria, LJK

2018 – Ongoing | France, Grenoble

- Subject: numerical simulation of ribbons
- Advisors:
  - Florence Bertails-Descoubes (Inria)
  - Sébastien Neukirch (CNRS & Sorbonne University)
- Teaching: Lectures on "Algorithm Validation" at the L3 MIAGE, Grenoble Alpes University

BACKGROUND

Bachelor 3rd year and Master (Computer Sc.)

E.N.S. Lyon

2013 – 2016 | France, Lyon

Erasmus semester

ETH Zürich

2015 – 2016 (Semester 1) | Switzerland, Zürich

PREVIOUS RESEARCH

Neural network with choices

LIP6

June – July 2014 | France, Paris

Advisors: Ludovic Denoyer, Patrick Gallinari, Benjamin Piwowarski

BPMN analysis

Friedrich Schiller Universität, Inria, LJK

May – August 2015 | Jena, Germany

Advisors: Wolfram Amme and Thomas Prinz

Ribbons

Disney Research

March 2016 – Jan. 2017 | Switzerland, Zürich

Advisor: Bernhard Thomaszewski

Hair refinement

Columbia University

April 2017 – July 2017 | USA, New-York

Advisor: Eitan Grinspun

LANGUAGES

French — Mother tongue

English — At least B2 (TOEIC)

German — C1

PROGRAMMING

Advanced: LaTeX | C++ | Qt | Eigen | IPOPT

Basic: Python | LUA | Maple

AWARD

Best IG paper
"Journées Françaises d'Informatique Graphique et de Réalité Virtuelle" (2019)

PUBLICATIONS

Journal Articles

- Charrondière, R., Bertails-Descoubes, F., Neukirch, S., & Romero, V. (2020). Numerical modeling of inextensible elastic ribbons with curvature-based elements. *Computer Methods in Applied Mechanics and Engineering*, *364*, 1–32. doi:10.1016/j.cma.2020.112922

Conference Proceedings

- Charrondière, R., Bertails-Descoubes, F., & Neukirch, S. (2019). Modélisation numérique de rubans en éléments de haut degré. In *14ème Colloque National en Calcul des Structures*, Giens, France. Retrieved from https://hal.archives-ouvertes.fr/hal-02384085
- Charrondière, R., Bertails-Descoubes, F., Neukirch, S., & Romero, V. (2019). Modélisation numérique de rubans en éléments de haut degré. In *JF.IG.RV 2019 - Journées Françaises d'Informatique Graphique et de Réalité Virtuelle*, Marseille, France. Retrieved from https://hal.archives-ouvertes.fr/hal-02384170