

Sébastien Court, PhD

Nationality: French

Born in Lyon (7ème) on 16.06.1984

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Background and Education

- 2019–present** Assistant Professor, University of Innsbruck, Austria,
Digital Science Center & Department of Mathematics.
Topic: Mathematical foundations of Deep learning and neural networks.
- 2015–2019** Postdoc SFB Research Center MOBIS & BioTechMed, Graz, Austria,
Institut for Mathematics and Scientific Computing, University of Graz.
Topic: Optimal control theory with time parameters and geometric parameters.
- 2013–2015** Postdoc Labex ClerVolc, Clermont-Ferrand, France,
Laboratoire de Mathématiques, Université Blaise Pascal.
Topic: Modeling of cracks inside volcanoes.
- 2012–2013** Temporary research and teaching assistant,
in an engineering school: *INSA de Toulouse*, France.
- 2009–2012** Ph-D student, Institut de Mathématiques de Toulouse, France.
Topic: Fluid-Solid interactions. Thesis defended on November 26, 2012.
- 2008–2009** Master 2 Research, Applied Math., Université Toulouse III (rank: 1st/26).
- 2005–2009** Student at the ENS Cachan - Antenne de Bretagne, Rennes, France.
Currently called *ENS Paris-Saclay*.
2008: *Agrégation de Mathématiques*, option: Computational Science.

Computer skills

C++, R, HTML, Shell, Matlab, Maple, L^AT_EX, Python.

Languages

English: Fluent. **French:** Native. **German:** B2 (09/2016). **Russian:** A2 (09/2017).

Internships and projects

- 2012** Meeting “Mathématiques et Entreprise”, Toulouse.
Topic: *Robust optimization of the shape of a plane wing*,
proposed by Matthieu Meaux (EADS Innovation Works).
- 2007** Internship: Modeling the visual perception.
Advisor: Sabine Ploux, Institute of Cognitive Sciences, Lyon (France).
- 2007** Project: The topological degree, theory and applications.
Advisor: Prof. Jacques Camus, Université de Rennes 1.
- 2006** Brouwer’s fixed-point theorem: application to solving a nonlinear PDE.
Advisor: Prof. Florian Méhats, Université de Rennes 1.

Miscellaneous

2010: Driving license obtained in France.

2009–2011: Elected representative of the Ph-D students of *Institut de Mathématiques de Toulouse*.