
Curriculum Vitae

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Guillaume OLIVE

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Place of birth: Marseille (FRANCE)
Nationality: French Citizen
Age: 29 y.o.

Research interests

• Partial Differential Equations • Control theory • Stabilization • Spectral theory

Experience

- 04/2016–10/2016 **Post-doctoral researcher**
under the supervision of Marius Tucsnak
Université de Bordeaux
- 09/2015–03/2016 **Post-doctoral researcher**
under the supervision of Miroslav Krstic
University of California, San Diego
- 09/2014–08/2015 **Post-doctoral researcher**
under the supervision of Jean-Michel Coron
Université Pierre et Marie Curie (Paris)
- 09/2013–08/2014 **Temporary teaching and research assistant**
Université Aix-Marseille

Education

- 09/2010 – 08/2013 **Ph.D. thesis in Applied Mathematics**
under the supervision of Assia Benabdallah and Franck Boyer
Université Aix-Marseille
- 09/2008–08/2010 **Research Master in "PDE and Scientific Computing"**
Université Aix-Marseille
- 09/2005–08/2008 **Degree in Mathematics**
Université Aix-Marseille

Publications

Articles submitted in a peer-reviewed journal

- [8] M. DUPREZ AND G. OLIVE, *Perturbations of controlled systems*, submitted (2016)
<https://hal.archives-ouvertes.fr/hal-01406540>
- [7] J.-M. CORON, L. HU AND G. OLIVE, *Finite-time boundary stabilization of general linear hyperbolic balance laws via Fredholm backstepping transformation*, submitted (2016)

Articles published in a peer-reviewed journal

- [6] F. ALABAU-BOUSSOUIRA, J.-M. CORON AND G. OLIVE, *Internal controllability of first order quasilinear hyperbolic systems with a reduced number of controls*, to appear in SIAM J. Control Optim. <https://hal.archives-ouvertes.fr/hal-01139980>
- [5] J.-M. CORON, L. HU AND G. OLIVE, *Stabilization and controllability of a first-order integro-differential hyperbolic equations*, J. Funct. Anal. 271 (2016), 3554–3587.
- [4] A. BENABDALLAH, F. BOYER, M. GONZÁLEZ-BURGOS AND G. OLIVE, *Sharp estimates of the one-dimensional boundary control cost for parabolic systems and application to the N -dimensional boundary null-controllability in cylindrical domains*, SIAM J. Control Optim. 52 (2014), no. 5, 2970–3001.
- [3] F. BOYER AND G. OLIVE, *Approximate controllability conditions for some linear 1D parabolic systems with space-dependent coefficients*, Math. Control Relat. Fields 4 (2014), no. 3, 263–287.
- [2] G. OLIVE, *Boundary approximate controllability of some linear parabolic systems*, Evol. Equ. Control Theory 3 (2014), no. 1, 167–189.

- [1] G. OLIVE, *Null-controllability for some linear parabolic systems with controls acting on different parts of the domain and its boundary*, Math. Control Signals Systems 23 (2012), no. 4, 257–280.

Ph.D. Thesis

G. OLIVE, *Contrôlabilité de systèmes paraboliques linéaires couplés* (2013).

Before the following jury:

- Fatiha ALABAU-BOUSSOUIRA (Professor at Université de Lorraine): **reporter**
- Farid AMMAR-KHODJA (Assistant professor at Université de Franche-Comté)
- Karine BEAUCHARD (Researcher at École Polytechnique): **president**
- Assia BENABDALLAH (Professor at Université d’Aix-Marseille): **thesis advisor**
- Franck BOYER (Professor at Université d’Aix-Marseille): **thesis advisor**
- Michel CRISTOFOL (Assistant professor at Université d’Aix-Marseille)
- Takéo TAKAHASHI (Researcher at INRIA)
- Emmanuel TRÉLAT (Professor at Université Paris 6): **reporter**

Scientific activities

Research abroad

- Aug. 2013 **15 days in Guanajuato then Mexico city (Mexico)**, invitation of Luz de Teresa.
- Feb. 2013 **15 days in Sevilla (Spain)**, invitation of Manuel González-Burgos.
- Dec. 2011 **10 days in Tokyo (Japan)**, invitation of Masahiro Yamamoto.

Conferences

- Dec. 2016 **Workshop on Parabolic Control with Hyperbolic Effects**, Toulouse (France).
- Jun. 2016 **Nonlinear Partial Differential Equations and Applications - A conference in the honor of Jean-Michel Coron for his 60th birthday**, Paris (France).
- Nov. 2015 **29th Southern California Control Workshop**, Los Angeles (U.S.A.).
- Jun. 2015 **From Open to Closed Loop Control**, Graz (Austria).

- Jun. 2015 **Congrès SMAI 2015**, Les Karellis (France).
- Apr. 2015 **Control of Partial Differential Equations @GSSI**, L'Aquila (Italy).
- Apr. 2015 **Journées Jeunes EDPistes Français**, Saint-Brévin (France).
- Jan. 2015 **Workshop on Control Systems and Identification Problems**, Valparaíso (Chile).
- Apr. 2014 **Control of PDEs**, Paris (France).
- Feb. 2014 **Journée Jeunes Contrôleurs**, Paris (France).
- Aug. 2013 **Mathematical Congress of the Americas 2013 - Control and Stabilization for Partial Differential Equations**, Guanajuato (Mexico).
- Nov. 2012 **Thematic school of the GDRE ConEDP: Control of PDE's, interactions and application challenges**, Marseille (France).
- Jun. 2012 **Control of Fluid-Structure Systems and Inverse Problems, Toulouse workshop 2012**, Toulouse (France).
- Jun. 2012 **Journées Nice-Toulon-Marseille à Porquerolles**, Hyères (France).
- Nov. 2011 **Conference of the European GDR Control of PDEs**, Marseille (France).

Seminars

- Nov. 2016 **Seminar - Applied Mathematics**, Kraków (Poland).
- Nov. 2016 **Seminar - Optimization and Control**, Kraków (Poland).
- Mar. 2016 **Seminar**, Besançon (France).
- Mar. 2016 **Seminar**, Nancy (France).
- Mar. 2016 **Seminar**, Marseille (France).
- Jul. 2015 **Seminar**, Marseille (France).
- Feb. 2013 **Seminar**, Sevilla (Spain).
- Feb. 2012 **Seminar**, Besançon (France).
- Dec. 2011 **Seminar**, Tokyo (Japan).

Teaching activities

2013-2014: A.T.E.R. at Université d'Aix-Marseille (192h)

- Optimization and control (Tutorials)
2nd year of the "PDE and Scientific Computing" Master.
- Basics in Mathematics (Lectures)
1st year of the Biology degree.
- Geometry and arithmetic (Tutorials)
1st year of the Mathematic degree.
- Linear and Multilinear Algebra (Tutorials)
2nd year of the Engineering degree.
- Basics in Mathematics (Tutorials)
1st year of the Engineering degree.

2010-2013: Teaching at Université d'Aix-Marseille (64h/year)

- Basics in Mathematics (Tutorials)
1st year of the Biology degree.
- Linear and Multilinear Algebra (Tutorials)
2nd year of the Engineering degree.
- Power and Fourier Series (Tutorials)
2nd year of the Mathematics and Computer Science degree.
- Differential Calculus (Tutorials)
2nd year of the Mathematics and Computer Science degree.
- Linear Algebra (Tutorials)
2nd year of the Mathematics and Computer Science degree.
- Linear Algebra (Tutorials)
1st year of the Biology degree.

Miscellaneous

- French : mother tongue
- Computing : Scilab, Latex
- English : advanced