

GUILLAUME GARRIGOS

CURRICULUM VITAE

GENERAL INFORMATION

Personal information and contact

Born in Toulouse (France), May 8th 1989. Single.

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Postal address : DIBRIS, Universita degli Studi di Genova

Via Dodecaneso 35, 16146 Genova, Italia.

Actual position (2015-2017)

Post-doc at the Laboratory for Computational and Statistical Learning, in the Istituto Italiano di Tecnologia.

Collaborators : Lorenzo Rosasco (IIT-MIT) and Silvia Villa (IIT).

Research themes : Optimization and regularization methods for machine learning.

Previous position (2012-2015)

Ph.D. student in Fundamental and Applied Mathematics at Université de Montpellier (France) and Universidad Técnica Federico Santa Maria (Valparaíso, Chile).

Advisors : Hédya Attouch (UM) and Juan Peypouquet (UTFSM).

Dissertation title : *Descent dynamical systems and algorithms for tame optimization and multi-objective problems..*

Teaching : Licence 1, Polytech Montpellier, Linear Algebra.

Education

2015 : Ph.D. in Applied Mathematics, Université de Montpellier and Universidad Técnica Federico Santa Maria.

2013 : Agrégation de Mathématiques

2012 : Master in Applied Mathematics, Université de Montpellier.

RESEARCH

Main research interests

Convex optimization, tame optimization, algorithms and continuous dynamical systems, regularization of inverse problems, image and signal processing, machine learning, multiobjective optimization.

Publications in international specialized journals

- (2) H. Attouch, G. Garrigos and X. Goudou. A dynamic gradient approach to Pareto optimization with nonsmooth convex objective functions. *Journal of Mathematical Analysis and Applications*, Vol. 422, No. 1, pp. 741–771, 2015.
- (1) P. Frankel, G. Garrigos and J. Peypouquet. Splitting methods with variable metric for KL functions and general convergence rates. *Journal of Optimization Theory and Applications*, Vol. 165, pp. 874–900, 2015.

Talks

- Séminaire SIERRA, INRIA, Paris, France. 2017 Feb 14.
- Séminaire Mathématiques de l'apprentissage, IMT, Toulouse, France. 2017 Feb 09.
- Seminario DeMat, Universidad Santa Maria, Valparaiso, Chile. 2016 Dec 19.
- Seminar of Optimization and Equilibrium, CMM, Santiago, Chile. 2016 Dec 14.
- NIPS, Barcelona, Spain. 2016 Dec 10.
- ICCOPT, Tokyo, Japan. 2016 Aug 09.
- Journées SMAI-MODE. Toulouse, France. 2016 Mar 23-25.
- Journées annuelles du GdR MOA, Dijon, France. 2015 Dec 02.
- International Symposium on Mathematical Programming, Pittsburgh, USA. 2014 Jul 14.
- Séminaire SPOC, Université de Bourgogne, Dijon, France. 2015 Mar 04.
- Encuentro anual de la Sociedad Matematica de Chile, Quinamavida, Chile. 2014 Dec 04.
- Seminario DeM, Universidad Santa Maria, Valparaiso, Chile. 2014 Oct 30.

Franco-Italian Workshop, Sestri-Levante, Italia. 2014 Sep 09.

Séminaire ACSIOM, Université de Montpellier, Montpellier, France. 2014 Sep 02.

Journées SMAI-MODE. Rennes, France. 2014 Mar 26-28.

Centro de Modelamiento Matemático, Universidad de Chile. Santiago, Chile. 2013 Sep 25.

Journées annuelles du GdR MOA. Paris, France. 2013 Jun 17-19.