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CURRICULUM VITÆ

Education

- 2009-present** : Post-Doctorate in NUMEC-USP.
advisor: Antonio Galves.
- 2006-2009** : PhD Thesis in INSA Toulouse.
advisors: Béatrice Laurent and Clémentine Prieur.
Resampling and Optimal Model Selection in Density Estimation.
- 2002-2006** : Ecole Normale Supérieure de Cachan.
- 2005-2006** : Master degree in probability and statistics in Orsay University
with Pascal Massart.
- 2004-2005** : Agrégation de Mathématiques (french national exam to recruit high
schools teachers) rank: 39
- 2002-2003** : Bachelor in pure Mathematics in Rennes University

Research experiments

Publications

- 2010** *Adaptive, non asymptotic Confidence Balls in density Estimation.*
Accepted for publication in ESAIM P&S.
- 2009** *Adaptive density estimation of stationary β -mixing and τ -mixing processes.*
Math. Meth. Statist., **18**, 59–83.

Papers submitted:

- 2010** *Optimal Model Selection for Stationary Data under various Mixing Conditions.*
in revision to *Ann. Statist.*. arXiv:0911.1497
- 2010** *An oracle approach for interaction neighborhood estimation in Random Fields.,*
with D. Yasumasa Takahashi. Submitted. arXiv:1010.4783
- 2009** *Optimal Model Selection in Density Estimation.* Submitted. arXiv:0910.1654

In preparation

- 2010** *V-fold Penalties in Density Estimation,* with S. Arlot.
- 2010** *Oracle Properties of BIC estimators in Context Tree estimation,* with A. Garivier.
- 2010** *Sharp oracle inequalities for specification probabilities estimation in general random fields.,*
with D. Yasumasa Takahashi.

Conferences

- Jorma's Razor, São Paulo October 2009:** Resampling methods in density estimation.
- XIII Escola Brasileira de Probabilidade, Mareisias August 2009:** Resampling methods in density estimation.
- Mathematical Statistics Meeting, CIRM December 2008:** Resampling methods in density estimation.
- Young statisticians meeting, Aussois July 2008:** L^2 -confidence balls in density estimation.
- Santander-Toulouse-Vallalolid Meeting, Santander January 2008:** Adaptive confidence balls.

Seminars

- NUMEC, São Paulo July 2010:** Model Selection for the Estimation of Conditional Probabilities.
- Université de Nice, 9th April 2010:** Data-Driven Penalties in Density Estimation.

Université d'Orsay, 8th April 2010: Data-Driven Penalties in Density Estimation.
Université de Paris 1, 26th March 2010: Data-Driven Penalties in Density Estimation.
NUMEC USP, São Paulo December 2009: An introduction to Model Selection by Penalization.
Université de Grenoble, June 2009: Optimal Model Selection in density estimation.
Université de Toulouse, June 2009: Optimal Model Selection in density estimation.