Curriculum vitae

Name, Surname

Grün, Christine

Professional address

TSE, GREMAQ, Manufacture des Tabacs, 21 allée de Brienne, 31015 Toulouse cedex 6, France

E-mail

christine.gruen@tse-fr.eu

Research Interests

Stochastic Differential Games, Partial Differential Equations, Backward SDEs, Optimal Stopping Games, Information Asymmetry

Present Position

Since September 2013

Maître de conférences in Applied Mathematics, TSE - Université Toulouse 1 Capitole

Previous Positions

October 2012 - August 2013

Post-doc Fellowship at Hausdorff Center for Mathematics & Institute of Microeconomics, Bonn University, Germany

September 2009 - August 2012

Phd Fellowship at Université Bretagne Occidentale, Brest, France

Supported by: Marie Curie Initial Training Network (ITN) project: "Deterministic and Stochastic Controlled Systems and Application", FP7-PEOPLE-2007-1-1-ITN, No. 213841-2.

Phd Thesis: $Jeux\ différentiels\ stochastiques\ à\ information\ incomplète$

Supervisors: Prof. Pierre Cardaliaguet, Université Paris Dauphine and Mcf. (HDR) Catherine Rainer, UBO Brest

Publications

with F. Gensbittel: Zero-sum stopping games with asymmetric information, to appear in Mathematics of Operations Research

with A. Bensoussan and J. Frehse: On a system of PDEs associated to a game with a varying number of players, Comm. Math. Sci., 13(3):623-639, 2015.

with A. Bensoussan and J. Frehse: Stochastic differential games with a varying number of players, Comm. on Pure and Applied Analysis (CPAA), 2014; 13(5):1719-1736.

On Dynkin games with incomplete information, SIAM J. Control and Optimization, vol. 51(5), 2013, p. 4039-4065.

A probabilistic numerical scheme for an obstacle problem arising in game theory, Applied Mathematics & Optimization (2012), Volume 66, Issue 3, pp 363-385.

A BSDE approach to stochastic differential games with incomplete information, **Stochastic Processes and their Applications**, vol. 122, no. 4, pp. 1917 - 1946, (2012).

Selected Presentations

October 2016

Invited Talk at the conference: Stochastic Analysis of Dynamical Systems, Stochastic Control and Games at the University of Leeds

10-24 August 2015

July 2015

Invited Phd Lecture: Introduction to game theory, Weihai, China

Invited talk at the Workshop: Optimal Stopping and Control in Economics and Finance at the Center for Interdisciplinary Research (ZiF), Bielefeld, Germany

June 2015

Invited talk at the Closing Conference of the thematic semester on "Information in

Finance and Insurance" of the LABEX Louis Bachelier, Paris

March 2015

Invited talk at the Workshop on Stochastic Analysis, Controlled Dynamical Systems

and Applications, Jena, Germany

July 2014

Invited talk at the 16th International Symposium on Dynamic Games and Applica-

tions, Amsterdam

June 2014

Invited talk at the Conference "Mathematical Aspects of Game Theory and Applica-

tions", Roscoff, France

June 2013

Contributed talk at the Workshop: Stochastic Dynamic Games with Applications in Economics and Finance, Hausdorff Research Institute for Mathematics, Bonn, Ger-

October 2012

Invited talk at the Workshop: Jeux répétés, jeux différentiels, Foljuif, France

June 2012

Contributed talk at "School on Controllability of Deterministic and Stochastic Systems and its Applications", Universitatea Alexandru Ioan Cuza, Iasi, Romania

August 2011 June 2011 Invited talk at the Workshop on Deterministic and Stochastic Games, Weihai, China

Contributed talk at the 6th International Symposium on Backward Stochastic Differ-

ential Equations, Los Angeles

December 2010

Contributed talk at the Autumn School and Workshop on "Stochastic Control Problems for FBSDEs and Applications", Marrakesh, Marocco

Invited research stays

April 2015

1 2014

November 2014

October 2014 February 2014 Department of Mathematics, Linnaeus University, Sweden, invited by A. Hilbert

Departement de Mathematiques, UBO Brest, invited by R. Buckdahn

Department of Mathematics, University of Padova, invited by M. Fischer Institute for Applied Mathematics, University of Bonn, invited by J. Frehse

Organisation

5-6 February 2015

Workshop: Strategic Aspect of Information in Games and Financial Markets () in the framework of the thematic semester on "Information in Finance and Insurance" of the LABEX Louis Bachelier

2014-2016

Seminar MAD (Mathematics of Decisions) at TSE

Service to community

Referee

SICON, SPA, Mathematical Finance, MOR, AMO, Stochastics, Electronic Communications in Probability, Mathematics and Financial Economics, ESAIM: Control, Optimisation and Calculus of Variations, Acta Applicandae Mathematicae, Journal of Dynamics and Games, Operations Research Letter, Int. J. of Game Theory Selection of an MCF at University Paris Dauphine (2015 and 2016)

Committee member

Teaching experience

Courses

Probability 2 (L2), Decision Mathematics (L3), Mathematics for Finance at TSM (M1)

Tutorials

Linear Algebra (L1), Mathematics for Economists (L1), Probability 1 (L2), Probability 2 (L2), Optimisation (L3), Decision Mathematics (L3), Advanced Analysis (M1)