



Sylvain Ferrières

Ph. D. in Economics,
Undergraduate mathematics teacher,
Alumni of École Normale Supérieure

French, in cohabitation, 2 daughters
Born on the 31st December, 1977

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Professional experience

- 2008-2016 **Undergraduate teacher, Bourgogne-Franche-Comté University**
Lectures: Mathematics, Probability and Statistics (BSc Economics and Business Admin.)
Tutorials: Microeconomics, Game Theory (BSc Economics)
Survey Theory (Msc Public Policies), Game Theory (Msc Economics)
Oral examiner for *Grandes Écoles* preparatory classes in Mathematics
- 2006-2008 Secondary school teacher in Mathematics
- 2003-2006 Instructor, Marne-la-Vallée University
Teaching: Algorithmics and simulation with Scilab (BSc Physics and chemistry)

Education

- Nov 2016 **Defense:** Four essays on the axiomatic method: cooperative game theory and scientometrics
- 2013-2016 **PhD Student**, CRESE, Bourgogne-Franche-Comté University, Besançon.
PhD Student, HHL, Graduate School of Management, Leipzig.
Supervisors (cotutelle): Prof. S.Béal (UBFC, Besançon) & Prof. P.La Mura (HHL, Leipzig)
- 2003-2008 In-house pedagogical trainings
- 2003-2006 **PhD Student**, École Normale Supérieure, Paris
Supervisor: Prof. Philippe Biane
Research subject: Free Probability, Combinatorics and group representation (*abandoned*)
- 1998-2003 **Student, ENS Paris**
MSc in Mathematics, BSc in Theoretical Physics
Master II report: Random matrices and random permutations.
Master I report: Feynman-Kac formula, analytical and probabilistic approaches.

Additional skills and hobbies

- Languages French (native), English (TOEIC: 865), German, Spanish and Polish (basic)
- Computer skills Scientific softwares (data analysis, numerical analysis, computer algebra, GIS), high-level programming languages, CMS, multimedia and office softwares
- Hobbies Free software, badminton, board games, history of ideas, cooking
- Driving Licence Class B

Research profile

Interests	Game theory , axiomatic method, network formation, decision theory, Mathematical modelling, especially in physics, biology and economics, Algorithmics, combinatorics, data analysis, econometrics
Lab. URL	http://crese.univ-fcomte.fr/sylvain_ferrieres.html
IDEAS	http://ideas.repec.org/f/pfe431.html
ResearchGate	http://www.researchgate.net/profile/Sylvain_Ferrieres
Website	https://sites.google.com/site/sylvainferrieres/
Grants	Financial support awarded by the Franco-German university for the cotutelle spendings
Summer School	Game Theory and Dynamic Games (Campioni d'Italia, 2016)

International conference presentations

2014	"Linear anonymous solutions for cooperative games with externalities, A case for algebraic methods" SING 10 (Kraków) International Workshop on Game Theory (São Paulo)
2015	"Axiomatic characterizations by means of players nullification" 2nd Workshop on Cooperative Game Theory in Business Practice (Leipzig) Research Colloquium for the HHL Doctoral Program (Leipzig)
2016	"Nullified equal loss property and equal division values" 3rd Workshop on Cooperative Game Theory in Business Practice (Leipzig) Research Colloquium for the HHL Doctoral Program (Leipzig)

Publications and Editorial activity

Published	"Axiomatic characterizations under players nullification", with Sylvain Béal, Eric Rémila and Philippe Solal, 2016, <i>Mathematical Social Sciences</i> 80 : 47 – 57.
Working papers	"Smoothness in atomic TU-games", 2016 "The proportional Shapley value and an application", 2016 (<i>under revision</i>) "The iterated h-index and applications to sport rankings", 2016 (<i>submitted</i>) "Nullified equal loss property and equal division values", 2015 (<i>under revision</i>)
Referee	<i>Operations Research Letters, Discrete Applied Mathematics</i>