

Sander VAN DER HOOG

GREQAM Château Lafarge
Route des Milles
13290 Les Milles
Tel : +33 04.42.93.59.86
Fax : +33 04.42.93.09.68
Web : [Greqam homepage](#)
E-mail : svdhoog@gmail.com



Date of Birth : April 9th, 1977
Place of Birth : Amsterdam, NL
Nationality : Dutch

Current position

Sept 2006 – Present

Research Fellow

GREQAM, Université de la Méditerranée (Marseille/Aix-en-Provence, France)

Current research : The EURACE Project (2006-2009) :

“An agent-based software platform for European economic policy design with heterogeneous interacting agents : new insights from a bottom up approach to economic modelling and simulation.”

Education & Academic Career History

2000-04	PhD Candidate in Mathematical Economics Center for Nonlinear Dynamics in Economics and Finance (CeNDEF) Dept. of Quantitative Economics, University of Amsterdam Supervisors : Prof. Dr. H.N. Weddepohl, Prof. Dr. C.H. Hommes
2000-04	Teaching Assistant Dept. of Quantitative Economics, University of Amsterdam
1999-00	MSc in Mathematical Economics & Econometrics Dept. of Quantitative Economics, University of Amsterdam
1998-99	Artificial Intelligence (1st year) Dept. of Computer Science, University of Amsterdam

Teaching Assistant

Fall 2001	Mathematical Economics - BSc Economics, 1st year - University of Amsterdam, Prof. Dr. H.N. Weddepohl Advanced Mathematics - BSc Economics, 2nd year - University of Amsterdam, Dr. F.O.O. Wagener
Fall 2002	Equilibrium and Disequilibrium Theory - BSc Economics, 2nd year - University of Amsterdam, Prof. Dr. H.N. Weddepohl Advanced Mathematics - BSc Economics, 2nd year - University of Amsterdam, Dr. F.O.O. Wagener

Research

Research interests

Agent-based Computational Economics

Microeconomics

Evolutionary game theory

Nonlinear dynamical systems

Publications

van der Hoog, S., 2008, [On the Disequilibrium Dynamics of Sequential Monetary Economies](#), Journal of Economic Behavior & Organization 68 (3-4), 525-552.

Deissenberg, C., van der Hoog, S., Dawid, H., 2008, [EURACE : A Massively Parallel Agent-Based Model of the European Economy](#), Applied Mathematics and Computation 204 (2), 541-552.

van der Hoog, S., Deissenberg, C., Dawid, H., 2008, Production and Finance in EURACE. In : Schredelseker, K. and Hauser, F. (Eds.), Complexity and Artificial Markets. Vol. 614 of Lecture Notes in Economics and Mathematical Systems. Springer, pp. 147-158.

PhD Thesis

van der Hoog, S., 2005, [Microeconomic Disequilibrium Dynamics](#)
Thela Thesis, Amsterdam

Master Thesis

Evolutionary Dynamics in Adaptive Belief Systems with Memory
(2000), University of Amsterdam, mimeo

Working papers

[Modelling Requirements for EURACE](#)
(2007), EURACE working paper WP2.1

[Modelling Specifications for EURACE](#)
(2007), EURACE working paper WP2.2

[A spatial separation model of a credit economy with optimistic and pessimistic quantity expectations](#)
(2005), CeNDEF Working paper 05-16, University of Amsterdam

[Hysteresis in a spatial separation model of a credit economy](#)
(2005)

Work in progress

Experience-Weighted Attraction Learning in an Artificial Financial Market
(2008)

Modelling the Government and Eurostat *joint with Christophe Deissenberg*
(2008)

Presentations at professional meetings

- 2003 **Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics**
A spatial separation model of a credit economy
Vienna, Austria
- 2003 **Workshop on Economics with Heterogeneous Interacting Agents**
A spatial separation model of a credit economy
Kiel, Germany
- 2003 **9th Int. Conference on Computing in Economics and Finance**
A spatial separation model of a credit economy
Seattle, US
- 2004 **10th Int. Conference on Computing in Economics and Finance**
On Monetary Dynamics in an Exchange Economy with Cash-in-Advance Constraints
Amsterdam, The Netherlands
- 2004 **First Bonzenfreies Colloquium on Market Dynamics and Quantitative Economics**
Agent-based Computational Economics, A critical Appraisal
Alessandria, Italy
- 2005 **Workshop on Economics with Heterogeneous Interacting Agents**
Hysteresis in a spatial separation model of a credit economy
Essex, UK
- 2006 **Complexity Conference**
Optimistic and pessimistic expectations in a sequential credit economy
Aix-en-Provence, France
- 2007 **GREQAM Interactions Group**
The EURACE Project
Marseilles, France
- 2007 **Artificial Economics Conference**
The EURACE Project
Palermo, Italy
- 2008 **Conference on Computation in Economic and Finance (CEF)**
Production and Finance in EURACE
Paris, France
- 2008 **Artificial Economics Conference**
Production and Finance in EURACE
Innsbruck, Austria

Invited Presentations

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| 2007 | Bridging Finance, Physics and Sociology
The EURACE Project, Monaco |
| 2008 | ETH Zurich, Chair of Complex Systems Design (Prof. Schweitzer)
Production and Finance in EURACE, Zurich, Switzerland |

Summer Schools

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| 2001 | Summerschool on Hamiltonian Dynamics and Homoclinic Bifurcations
June 11-15 2001, University of Twente, The Netherlands |
| 2004 | Advanced Summerschool and Workshop on Nonlinear Dynamical Systems in Economics
June 5-11 2004, Triëste and University of Udine, Italy |
| 2004 | First Bonzenfreies Colloquium on Market Dynamics and Quantitative Economics
September 9-10 2004, Alessandria, Italy |
| 2006 | CEEL Summer School on Agent-based Computational Economics
June 2-23 2006, Computable and Experimental Economics Laboratory, University of Trento, Italy |
| 2007 | Summer School on Agent Based Models for Spatial Systems in Social Sciences & Economic Science with Heterogeneous Interacting Agents
September 17-22 2007, La Londe les Maures, France |
| 2008 | International Workshop on Challenges and Visions in the Social Sciences
August 18-23 2008, ETH Zurich, Switzerland |

Visits

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| 2008 | Visit to University of Sheffield
February 25 - 29, University of Sheffield, UK |
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Prizes and Awards

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| 2004 | Society for Computational Economics
'Best Student Paper in Computational Economics 2004'
for the paper entitled 'On Monetary Dynamics in an Exchange Economy with Cash-in-Advance Constraints' |
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Miscellaneous

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| Languages | Dutch (Native), English (Fluent), French (Medium), German (Medium) |
| Software | L^AT_EX , MatLab , Maple , Mathematica |
| Programming | C , FLAME |