

## Curriculum Vitae

# Sylvain BARTHELEMY

I am dealing with issues related to applied research, software development and implementation of innovative products in the fields of finance, macroeconomics, statistics and artificial intelligence.

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### PROFESSIONAL CONTACT INFO

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### PERSONAL CONTACT INFO

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Address            7 rue des Mauvis, 35650 Le Rheu, France  
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Homepage         <http://www.sylbarth.com>

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### PERSONAL DATA

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Date of birth      April 23, 1970  
Place of birth     Tours, France  
Citizenship       French  
Marital status    Married

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## PAST & PRESENT POSITIONS

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2015-to date **CEO, TAC ECONOMICS, France** ([www.taceconomics.com](http://www.taceconomics.com))

General management and research.

2010-2014 **Executive Director, TAC, France**

General management and research.

2007-2009 **Research Director, TAC, France**

Management of research in economy and finance.

2004-2007 **Manager of Quantitative Research, TAC**

Development of macroeconomic models and data mining methodologies.

1995-2004 **Senior Economist, TAC**

Economic analyses on developing countries.

1994,95 **Statistics Expert, ESC Group, France**

Statistical analysis and software development for SME analysis -contributed to "Enquête sur les PME françaises" (*Survey and analysis on French SMEs*), edited in 1995 (ed. Maxima).

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## TEACHING ASSIGNMENT

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- ❖ Lecturer in "statistics and data-mining applied to country risk analysis", at the Rennes University, France (Master's level).
- ❖ Lecturer in "C++ and Matlab applied to economic analysis", at the Rennes University, France (Master's level).

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## EDUCATION

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- ❖ Pre-doctoral degree in Monetary Economics, University of Rennes, France, 1996.
- ❖ Master's Degree in Monetary Economics, University of Rennes, France, 1994.

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## LANGUAGE SKILLS

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Competence on a scale of 1 to 5 (5 - excellent; 1 - basic)

Language	Reading	Speaking	Writing
French	5	5	5
English	5	4	5
Spanish	4	2	2

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## OTHER SKILLS

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Computer specialist and software developer using the following tools:

- ❖ Programming : C/C++, Java, Perl, VBA, Python
- ❖ Databases : Oracle, MySQL, PostgreSQL, MS Access, Cassandra, MongoDB
- ❖ Web : HTML, XML, PHP, Java, Python
- ❖ Admin : Windows, SCO, Linux, Solaris, BSD, AIX
- ❖ Statistics : SAS, SPSS, Matlab, Gauss, S-PLUS, Rats, Ox, Octave, R

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## MEMBERSHIP OF PROFESSIONAL BODIES

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- ❖ Forecasting Financial Markets Association (Vice President, FFMA)
- ❖ American Economic Association (AEA)
- ❖ Global Association of Risk Professionals (GARP)
- ❖ French Economic Association (AFSE)
- ❖ French Finance Association (AFFI)

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## MEMBERSHIP OF SCIENTIFIC COMMITTEES

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- ❖ Member of the Scientific Committee of the Forecasting Financial Markets Conference
- ❖ Member of the Scientific Committee of the Conference “Neural Networks Applied to Economics” (Kerkennah/Tunisia, June 2011).
- ❖ Editor in Chief of the CORBA section on developpez.com

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## ARTICLES & PUBLICATIONS

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- ❖ Post-reorganization survival: a semi-parametric and non-parametric analysis of firm characteristics, written with L. A. Fattah, N. Levratto and B. Trempont. *EconomiX Working Papers*, 2016.
- ❖ EU-China FDI in the 21st century: Who is ready for a “win-win” strategy? Written with T. Apoteker and S. Lunven. Conference on EU and Emerging Powers, European Parliament, Brussels, April 2013.
- ❖ Forecasting short-term oil prices using a combination of data mining models, *EURO-INFORMS Rome*, July, 2013.
- ❖ Forecasting Financial Crises and Recoveries, written with Jean-Sébastien Pentecôte, *Forecasting Financial Markets Conference*, May 2012.
- ❖ Les réseaux de neurones : Entrevue avec Laurent Bougrain et Sylvain Barthélémy, *Revue Ethique Economique*, Vol 9 #1, April, 2012.
- ❖ mdgTrack.org, a website designed to track progress on the Millennium Development Goals over more than 140 locations worldwide, 2011.
- ❖ Self-Organizing Maps, Pattern Recognition and Financial Crisis, written with Matthieu Pautonnier, *Forecasting Financial Markets 2011 Conference*, May, 2011.
- ❖ The Emergence of Chinese Multinational Companies (CMCs): Reality, Issues and Challenges, *All China Economics International Conference*, Hong-Kong, Dec. 2009.
- ❖ Managing non-linearity and asymmetry in the forecasting of exchange rates: an illustration on the Euro-Dollar parity by using a recursive partitioning algorithm. To be published, written in March 2007.
- ❖ Cost of capital and country risk in developing countries, *Association Française de Science Economique (AFSE)*, June 2006.
- ❖ Predicting financial crises in emerging markets using a composite non-parametric model. *Emerging Markets Review* 6 (2005), 363-375, Dec. 2005.
- ❖ Validation of credit risk models. Getting ready for Basel II, Nov, 2004.
- ❖ Early warnings on crisis in emerging markets using artificial intelligence, Presented at the *GDR Conference on Monetary Economics & Finance*, Orléans, May, 2004.
- ❖ A typology of very small companies using self-organizing maps. Presented at the international *IEEE conference on Systems, Man & Cybernetics*, Washington, Oct. 8, 2003.
- ❖ Genetic Algorithms and Financial Crises in Emerging Markets. Presented at the 18<sup>th</sup> *International Conference in Finance*, organized by the *AFFI*, Namur (Belgium), June 26, 27 & 28, 2001.
- ❖ L'évaluation des entreprises afin de faciliter l'accès au crédit: quelle intermédiation informationnelle ? An evaluation of SMEs access to credit, written for the *French Ministry of Industry and Finance*, 2001.

- ❖ Visibroker Configuration under JBuilder 4, published on [www.developpez.com](http://www.developpez.com), Nov 2000.
- ❖ Beginners guide to JBuilder: Hello World, published on [www.developpez.com](http://www.developpez.com), Nov 2000.
- ❖ Beginning with CORBA, published on [www.developpez.com](http://www.developpez.com), April 1998.