

Curriculum Vitae

Sylvain BARTHELEMY

I am dealing with issues related to innovative and applied research in economy and finance. I am in charge of research, notably in the field of macro-econometric modelling, statistical analysis, data mining and software development and oversee the implementation of our research on macroeconomic issues as well as industry and corporate issues.

Recent Research: country risk analysis using SVM and self organizing maps, text mining applied to economic analysis, sentiment analysis and topic detection, cost of capital in emerging markets, random forest and exchange rate forecasts, millennium development goals, ...

PROFESSIONAL CONTACT INFO

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PERSONAL CONTACT INFO

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PERSONAL DATA

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

PAST & PRESENT POSITIONS

2015-to date **CEO, TAC ECONOMICS, France** (www.taceconomics.com)

In charge of general management, research in economy and finance, software development and implementation of innovative products in the fields of finance, artificial intelligence, macroeconomics and statistics.

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).

TEACHING ASSIGNMENT

- ❖ 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).

EDUCATION

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

LANGUAGE SKILLS

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

OTHER SKILLS

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

MEMBERSHIP OF PROFESSIONAL BODIES

- ❖ American Economic Association (AEA)
- ❖ Global Association of Risk Professionals (GARP)
- ❖ French Economic Association (AFSE)
- ❖ French Finance Association (AFFI)

MEMBERSHIP OF SCIENTIFIC COMMITTEES

- ❖ 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

ARTICLES & PUBLICATIONS

- ❖ 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 18th *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, Nov 2000.
- ❖ Beginners guide to JBuilder: Hello World, published on www.developpez.com, Nov 2000.
- ❖ Beginning with CORBA, published on www.developpez.com, April 1998.