

Curriculum Vitae

Sylvain BARTHELEMY

Key Qualifications: I am dealing with many issues and subjects related to applied research in economy and finance. I am in charge of research and quantitative developments, notably in the field of benchmarking policies, as well as macro-econometric modelling, survey realisation, data mining and software development. I oversee all implementation of data analysis, both standard and complex, on macroeconomic issues as well as industry and corporate issues.

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

2007-to date **Research Director, TAC, France** (www.tac-financial.com)

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

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

Development and maintenance of macroeconomic models and data mining methodologies, as well as their implementation on various software platforms.

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 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, Postgres, MS Access.
- ❖ Web : PHP, JSP & servlets, ASP, XML.
- ❖ Admin : Windows, SCO, Linux, Solaris, BSD, AIX.
- ❖ Statistics : SAS, SPSS, Gauss, S-PLUS, Rats, Ox, Octave, R ...

MEMBERSHIP OF PROFESSIONAL BODIES

- ❖ American Economic Association
- ❖ Global Association of Risk Professionals (GARP)
- ❖ Editor in Chief of the CORBA section on developpez.com

ARTICLES & PUBLICATIONS

- ❖ 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, TAC website, 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.