

# Serge SMIDTAS-LEVY

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Born: August 10, 1978  
36 rue Saint-Sulpice  
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## Education

- 2003-present**      **PhD Candidate in Cell & Molecular Biology – University Evry Genopole**  
Modelisation and Analysis of heterogeneous genetic regulation networks.
- 2002-2003**      **Dauphine, Paris - DEA 104 Finance** ( Postgraduate Diploma )  
Pricing, Hedging, Arbitrage, Exotic opt., Micro,Macro eco, Strategy, discreet & continuous time
- 2001-2002**      **Pasteur Institute, Paris - DEA Human Genetics** ( Postgraduate Diploma )  
Biotechnonlogy technics, practice and theory
- 2001-2002**      **Paris VII + Orsay - DEA Interface Physics Biology** ( Postgraduate Diploma )  
Biology and Physics useful for Biology like Statistical and Non Linear Physics
- 1999-2001**      **Supélec, Paris ( MS )** Higher training school for electrical, control and communications engineering  
Minor in Economics and Management
- 1996-1999**      **Louis-le-Grand, Paris**  
**Preparatory classes for higher selective engineering schools**  
Course in Physics, Chemistry, Mathematics
- 1996**              High School diploma (BACCALAUREAT) with honors

## Experience

- 2003-present**      **BioInformatician – Genoscope Evry (French National Sequencing Center)**  
CNRS UMR 8030
- 1996-present**      **Director – SARL SERDA**  
**Familly Company wich buy, sell and rent furnished flats**  
Finance Strategy, Accounts and Tax,
- 1996-present**      **Freelance Designer**  
Website for different parts and logo design contests
- 2002**              **In silico analysis of the yeast transcriptional regulation network – Hybrigenics Paris**  
Large-scale in-silico analysis of the transcriptional regulation network of yeast
- 2001**              **Intern - Microarray CNRS Genetic Molecular Center – Orsay**  
Developed and evaluated methods for the statistical normalization in DNA microarrays.  
Design infrastructure and installation of the laboratory.
- 2000**  
**summer**              **Software Engineer – Cortex - New Caledonia**  
Solely responsible for the design and development, of the second Internet Provider website, and animation of its community.
- 1998**  
**summer**              **Intern – KTH ( Royal Institute of Technology ) , Stockholm Sweden**  
Department of Energy Technology, Heat & Power Technology  
CDROM Simulation of Profile losses in a turbine experiment for the Computerized Education project.

## Scientific communications

### Publications

Modeling of the Yeast regulatory network and study of its topology.  
Smidtas S. - Master Thesis, pasteur Institute, 2002

Real Estate risk and hedging  
Smidtas S. - Master Thesis, Univ. Paris. Dauphine, 2002

Property-driven statistics of biological networks.  
Schachter V., Danos V., Smidtas S., Kepes F., Computational Model for Systems Biology, 2005

The adaptative filter of the yeast galactose pathway.  
Smidtas S., Schachter V., Kepes F. in press, 2005

Universal Model of Interactions in Biological Networks  
Smidtas S., Yartseva A., Schachter V., Kepes F., 2005

### Work in progress

Shuffling and rooting composite biological graphs.  
Smidtas S.

How to study cooperativity, coupling and inter-relations of large networks  
Smidtas S.

Genocyc: a rich API of Java classes for systems biology modeling  
Le Fevre F., Smidtas S.

### Scientific Exhibits

Modeling of the Yeast regulatory network and study of its topology  
ARC CPBIO, Hybrigenisc, Paris FR, June 2, 2002

BIB: A tool for Biological Network Motif Analysis  
ISMB-ECCB, 1-hour, July 31 – August 4, Glasgow UK, 2004

Complex biological networks: gene regulation and protein interactions  
ISI Fundation, Torino IT, 2005

### Posters

Complementation of the yeast transcriptional regulation network with protein-protein interactions Smidtas S., Bourguine P., Kepes F., Schachter V., ISMB-ECCB, Glasgow UK, 2004  
Smidtas S., Bourguine P., Kepes F., Schachter V., ICSB, Heidelberg GE, 2004

Reconstruction of a Genome-scale Model of Acinetobascter ADP1 sp. Metabolism and Analysis of Phenotypic Profiles. Durot M., Le Fèvre F., Pinaud B., Kreimeyer A., Perret A., De Bernardinis V. Smidtas S. Weissenbach J., Schachter V.  
2<sup>nd</sup> European Conference on Prokaryotic Genomes, Göttingen, GE, September 23-26 2005

### Organization

Computational Methods in Systems Biology, 2004 May 26-28, Paris FR  
Biopathways (ISMB SIG), 2004 June 02, Glasgow UK

**Languages:** English: fluent French: Native language Spanish: Basic

**Technical Skills:** Comfortable in any computational environment.  
mysql, postgresQL OQL, Java, Hibernate, JAXB, UML, C, C++, PHP, ASM, Javascript, Lingo, Network, MacOS, Linux, Windows

**Hobbies:** Photography, Painting Exhibition, Construction work, Design & Architecture competition, Patent France930994000 about skinable and plugin phones  
Extensive travelling world wide (USA, Europe, North&South Africa, ...)  
Investment Club, President of Former school association.