

Nicolas-Kirti SCHOLTÈS

PERSONAL

PLACE AND DATE OF BIRTH: Messancy, BELGIUM | 13 January 1988
NATIONALITY: Belgian
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EDUCATION

2013 - 2017 (EXP) | Ph.D in ECONOMICS | **Université catholique de Louvain**
↔ joint with **Université de Namur**
Thesis: *Interbank networks, macroprudential policy and financial stability.*
↔ Supervisors: Jean-Yves GNABO (UNamur) and Sophie BERAU (UCL)

2010 - 2012 | M.Sc in ECONOMICS (Research focus) | **Université catholique de Louvain**
Cum Laude
Thesis: *Efficiency and conservation in common property resource management.*
↔ Supervisor: Jean-Marie BALAND (UNamur)
Chosen electives: Advanced international trade, development economics, social choice theory, macroeconomic dynamics

2006 - 2010 | B.Eng in CHEMICAL ENGINEERING | **McGill University, Canada**
Chosen electives: Industrial air pollution control, environmental bioremediation, environmental economics, introductory neuroscience

WORK EXPERIENCE

SEP 2016 - MAR 2017 | **Ph.D Trainee** at EUROPEAN CENTRAL BANK
Frankfurt A.M, Germany
DG Macroprudential Policy and Financial Stability
↔ Financial Regulation Division
Deliverables: Assessing the impact of Basel III regulations and the current macroeconomic environment on the liquidity of key bank funding markets.
Achievements: Cleaning/organisation and graphical analysis of granular bank data | Econometric panel analysis of market liquidity drivers.

SEP 2012 - SEP 2013 | **Research assistant** at UNIVERSITÉ CATHOLIQUE DE LOUVAIN
Center for Operations Research and Econometrics (CORE)
Research: Application of state-of-the-art multivariate volatility models to Value-at-Risk forecasting (see [Research](#)) | Contribution: CORE seminars and Discussion Paper series
Teaching: Tutorial and exam preparation/correction | 100+ hours assigned teaching for: ÉCONOMIE POLITIQUE (FR), MICROÉCONOMIE (FR), [ADVANCED MICROECONOMICS II](#) (EN)

JUNE - SEP 2010 | **Intern** at UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANISATION
Vienna, Austria
Environment Management Branch
↔ Cleaner and Sustainable Production Unit
Deliverables: Development of a “*Low-carbon roadmap*” for Indian industry
Achievements: Compilation of a [report](#) focusing on best-available technology uptake in the steel, cement, chemicals and petrochemicals industries.

JUNE - SEP 2008 | **Intern** at EUROCONSULT MOTT MACDONALD
New Delhi, India
Technical Assistance for EU-India Joint Action Plan Support Facility
Deliverables: Identification of potential areas of cooperation on environmental issues between the EU and India.
Achievements: Compilation of a [report](#) on implementation of the Stockholm convention on POPs, CTC Phase-out and cleaner technology promotion in India | Travel to Ankleshwar Industrial complex for on-site assessment and interviews.

RESEARCH

Publications

Braione, M. and Scholtes, N.K., “Forecasting Value-at-Risk under different distributional assumptions”, *Econometrics*, 2016, 4, 3.

Working Papers

Scholtes, N.K., “A crisis of confidence: The liquidity-counterparty risk nexus in an agent-based network model of the interbank market”, 2017 (Draft available upon request)

Scholtes, N.K., “Default cascades and systemic risk on different interbank network topologies”, 2017 (Draft available upon request)

Gnabo, J-Y. and Scholtes, N.K., “Assessing the role of interbank network structure in business and financial cycle analysis”, *NBB Working Paper Research No. 307*, October 2016.

↪ Under review at *Journal of Money, Credit and Banking*

Campbell, E. (CDC & Penn State U.), Edwards, M. (MIT), Hellmann, J. (Ohio State U.), Li, L. (US Army Research Lab.), Scholtes, N.K., “Financial stability through self-quarantine vs. system regulation: A simulation study of the interbank market”. Proceedings of the 2014 Santa Fe Institute Complex Systems Summer School

CONFERENCES

2016 | [NBB Biennial conference](#) | National Bank of Belgium (Brussels)
[Computing in Economics and Finance](#) | Soc. for Comp. Econ. (Bordeaux)

2015 | Spring Meeting of Young Economists | Ghent
[NIAS-Lorentz workshop on socioeconomic complexity](#) | Lorentz center (Leiden)

2014 | Institute for New Economic Thinking - YSI | De Nederlandsche Bank (Amsterdam)
Econometrics day | Université Paris X Nanterre (Paris)

SEMINARS

CNRS - EconomiX lunch seminar, CORE Brown Bag seminar, UCL-UNamur doctoral workshop in finance, CeReFiM seminar, CORE econometrics reading group, FiXS internal seminar, 3L finance research workshop, Belgian Network Research meeting

DISCUSSIONS

Stefano Battiston, Tarik Roukny and Joseph Stiglitz, *Interconnectedness as a source of uncertainty in systemic risk*, (Belgian Financial Research Forum, NBB, 2016)

Michael Grill, Jan Hannes Lang and Jonathan Smith, *The leverage ratio, risk-taking and bank stability*, (5th Ph.D Conf in International Macroeconomics and Financial Econometrics, 2016)

Geraci, Marco and Gnabo, Jean-Yves, *Measuring interconnectedness between financial institutions with Bayesian time-varying VARs*, (UCL-UNamur doctoral workshop in economics, 2015)

Vermeulen, Glen and Kort, Peter, *Real Options and Bank Bailouts: How Uncertainty affects Optimal Bank Bailout Policy* (SMYE, 2015)

SKILLS

IT	Programming:	C, \LaTeX , MATLAB, Dynare, Python, R, Stata
	Web design:	HTML, CSS, Drupal
	Databases:	Bankscope, Bloomberg, Fitch, SNL
	Other:	GEPHI, PGF/TikZ

Languages:	French, English (fluent), German (advanced), Dutch (competent)
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AWARDS

NBB grant (EUR 30,000) and participation in the joint research project on: *The Transmission Mechanism of New and Traditional Instruments of Monetary and Macroprudential Policy*

ARC Ph.D fellowship (4 years): Financial Complex Systems group

ADMINISTRATIVE DUTIES

Co-organizer, 2016 UCL-UNamur doctoral workshop in finance

Co-organizer, 2014 Winter school on Networks in economics and finance

Co-organizer, 2012 - 2013 doctoral workshop at UCL

Assistant, Lecture series in International Economics, Spring 2012

TRAINING

DEC 2014 | **Networks in Economics and Finance** | CORE/LSM
Louvain-la-Neuve

SEP 2014 | **Central banking in the 21st century** | GOETHE UNIVERSITY
Frankfurt A.M

JUNE 2014 | **Complex Systems Summer School** | SANTA FE INSTITUTE
Santa Fe, U.S.A