

## CURRICULUM VITAE

### NICOLAS JONARD

Born December 21, 1969  
French Citizenship

Faculty of Law, Economics and Finance  
University of Luxembourg  
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### ACADEMIC AND PROFESSIONAL EXPERIENCE

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- 2006 to present: Associate Professor of Economics and Management, Université du Luxembourg, Luxembourg
- 2002 to 2006: CNRS Researcher, Centre de Recherche en Epistémologie Appliquée, Ecole Polytechnique, Paris
- 1999 to 2002: CNRS Researcher, Bureau d'Economie Théorique et Appliquée, Université Louis Pasteur, Strasbourg
- 1998 to 1999: Post Doctoral Research Fellow, Maastricht Economic Research Institute on Innovation and Technology (MERIT), Universiteit Maastricht
- 1992 to 1998: Teaching Assistant, Faculté des Sciences Economiques et de Gestion, Université Louis Pasteur, Strasbourg

### EDUCATION

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- PhD in Economics, 1997, Université Louis Pasteur, Strasbourg
- MA in Economics, 1993, Université Louis Pasteur, Strasbourg
- MS in Actuarial Science, 1992, Université Louis Pasteur, Strasbourg

### TEACHING AND SUPERVISION EXPERIENCE

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- Participation in doctoral programmes:
- European Summer School on Industrial Dynamics, Dubrovnik (2007)
  - European Doctoral Training Programme on the Economics of Technological and Institutional Change, Strasbourg (2010, 2009, 2002, 2001)

Université du Luxembourg:

Research and Methodology Seminars (2008 to present, Graduate)

Economic Issues (2007 to present, Undergraduate)

Corporate Finance (2006 to 2009, Undergraduate)

Multinational Business Finance (2006 to present, Undergraduate)

Universiteit Maastricht:

Economic History (1999, Undergraduate)

Université Louis Pasteur:

Statistics for Economists (1993 to 1998, Undergraduate)

Mathematics for Economists (1992 to 1998, Undergraduate)

Ph.D. Thesis supervision:

Maurizio Cortesi (Université du Luxembourg, started 2008)

Müge Özman (joint supervision with R. Cowan, Universiteit Maastricht, 2001 to 2004)

Participation in Ph.D. committees:

Thierry Rayna (Université Aix-Marseille III, 2007)

Müge Özman (Universiteit Maastricht, 2004)

Elad Harison (Universiteit Maastricht, 2004)

Gottfried Liebbrandt (Universiteit Maastricht, 2003)

## **UNIVERSITY ADMINISTRATIVE DUTIES**

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2006 to 2008: Co-director of the Bachelor's Degree in Management, Université du Luxembourg: update and reorganization of the curriculum, development of partnerships with foreign universities, coordination of the faculty and practitioners involved, budget responsibility.

2006 to present: Co-director of the Master's Degree in Entrepreneurship and Innovation, Université du Luxembourg: negotiation of a partnership with the Chamber of Commerce of Luxembourg ([http://fdef.uni.lu/index.php/fdef\\_FR/lux\\_business\\_academy](http://fdef.uni.lu/index.php/fdef_FR/lux_business_academy)), design of the curriculum, promotion of the program, student selection, organization and coordination of the courses and external faculty, establishment of relationships with mentor firms involved in the program, supervision of Master thesis. 2006 to 2008: Co-director of the Bachelor's Degree in Management, Université du Luxembourg.

## **PUBLISHED WORK**

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### **JOURNAL ARTICLES**

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1. Baum, Joel, Cowan, Robin and Nicolas Jonard (2010) "Network-independent partner selection and the evolution of innovation networks", forthcoming *Management Science*.
2. Cowan, Robin and Nicolas Jonard (2009) "Knowledge Portfolios and the Organization of Innovation Networks", *Academy of Management Review*, 34, 101-122.
3. Cowan, Robin, Jonard, Nicolas and Jean-Benoit Zimmermann (2007) "Bilateral Collaboration and the Emergence of Innovation Networks", *Management Science*, 53, 1051-1067.

4. Cowan, Robin and Nicolas Jonard (2007) "Merit, Approbation and the Evolution of Social Structure", *Journal of Economic Behavior and Organization*, 64, 295-315.
5. Cowan, Robin and Nicolas Jonard (2007) "Structural Holes, Innovation and the Distribution of Ideas", *Journal of Economic Interaction and Coordination*, 2, 93-110.
6. Cowan, Robin and Nicolas Jonard (2007) "Network Architecture, Barter Exchange and the Diffusion of Ideas", *International Journal of Agricultural Resources, Governance and Ecology*, 6, 165-178.
7. Cowan, Robin, Jonard, Nicolas and Jean-Benoit Zimmermann (2006) "Evolving Networks of Inventors", *Journal of Evolutionary Economics*, 16, 155-174.
8. Jeunet, Jully and Nicolas Jonard (2005) "Single Point Stochastic Search Algorithms for the Multi Level Lot Sizing Problem", *Computers and Operations Research*, 32, 985-1006.
9. Cowan, Robin, Jonard, Nicolas and Müge Özman (2004) "Knowledge Dynamics in a Network Industry", *Technological Forecasting and Social Change*, 71, 469-484.
10. Cowan, Robin and Nicolas Jonard (2004) "Network Structure and the Diffusion of Knowledge", *Journal of Economic Dynamics and Control*, 28, 1557-1575.
11. Jonard, Nicolas and Eric Schenk (2004) "A Note on Compatibility and Entry in a Circular Model of Product Differentiation", *Economics Bulletin*, 12, 1-9.
12. Jonard, Nicolas and Eric Schenk (2003) "A Duopoly Logit Model with Price Competition and Strategic Compatibility", *Annales d'Economie et de Statistique*, 69, 143-168.
13. Cowan, Robin and Nicolas Jonard (2003) "The Dynamics of Collective Invention", *Journal of Economic Behavior and Organization*, 52, 513-532.
14. Cowan, Robin, Jonard, Nicolas and Jean-Benoit Zimmermann (2003) "Complémentarités Cognitives et Production de Connaissances Nouvelles: une Analyse en Termes de Réseaux", *Revue d'Economie Industrielle*, 103, 253-274.
15. Jonard, Nicolas (2002) "On the Survival of Cooperation under Different Matching Schemes", *International Game Theory Review*, 4, 459-473.
16. Dellaert, Nicolas, Jeunet, Jully and Nicolas Jonard (2000) "A Genetic Algorithm to Solve the Multi-Level Lot-Sizing Problem in Material Requirement Planning Systems", *International Journal of Production Economics*, 68, 241-257.
17. Jeunet, Jully and Nicolas Jonard (2000) "Measuring the Performance of Lot-Sizing Techniques in Uncertain Environments", *International Journal of Production Economics*, 64, 197-208.
18. Jonard, Nicolas (1999) "Technological Complementarities and Aggregate Fluctuations in a Markovian Industry", *Annales d'Economie et de Statistique*, 53, 149-169.
19. Jonard, Nicolas and Murat Yildizoglu (1998) "Technological Diversity in an Evolutionary Industry Model with Localized Learning and Network Externalities", *Structural Change and Economic Dynamics*, 9, 33-51.

## BOOK CHAPTERS

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1. Cowan, Robin and Nicolas Jonard (2008) "If the Alliance Fits...: Innovation and Network Dynamics", in Baum, Joel and Tim Rowley (Eds.), *Advances in Strategic Management*, 25, 427-455.
2. Cowan, Robin and Nicolas Jonard (2008) "Structural Holes, Innovation and the Distribution of Ideas", in Pyka, Andreas and Andrea Scharnholtz (Eds.), *Innovation Networks*, Springer series on Complexity Theory, 127-145, reprinted from the *Journal of Economic Interaction and Coordination*.
3. Cowan, Robin and Nicolas Jonard (2005) "Network Formation, Innovation and the Use of Information Technologies", in Soete, Luc and Bas Ter Weel (Eds.) *The Economics of the Digital Society*, Edward Elgar.
4. Cowan, Robin and Nicolas Jonard (2004) "Knowledge Flows in Open Science", in Audretsch, David, Fornhal, Dirk and Christian Zellner (Eds.), *The Role of Labor Mobility and Informal Networks for Knowledge Transfer*, Dordrecht, Kluwer.
5. Cowan, Robin, Jonard, Nicolas and Jean-Benoit Zimmermann (2004) "On the Creation of Networks and Knowledge", in Gallegati, Mauro, Kirman, Alan and Matteo Marsili (Eds.) *The Complex Dynamics of Economic Interaction: Essays in Economics and Econophysics*, Springer, Lecture Notes in Economics and Mathematical Systems, 531, 337-354.
6. Cowan, Robin and Nicolas Jonard (2003) "The Workings of Scientific Communities", in Geuna, Aldo, Selzer, Amnon and Ed Steinmueller, *Science and Innovation: Rethinking the Rationale for Funding and Governance*, Edward Elgar, 309-334.
7. Cowan, Robin and Nicolas Jonard (2002) *Preface*, in Cowan, Robin and Nicolas Jonard (Eds.), *Heterogenous Agents, Interactions and Economic Performance*, Springer, Lecture Notes in Economics and Mathematical Systems, 521, V-IX.
8. Cowan, Robin, Jonard, Nicolas and Jean-Benoit Zimmermann (2002) "The Joint Dynamics of Networks and Knowledge", in Cowan, Robin and Nicolas Jonard (Eds.), *Heterogenous Agents, Interactions and Economic Performance*, Springer, Lecture Notes in Economics and Mathematical Systems, 521, 155-174.
9. Cowan, Robin and Nicolas Jonard (2001) "Knowledge Creation, Knowledge Diffusion and Network Structure", in Kirman, Alan and Jean-Benoit Zimmermann (Eds.), *Economies with Heterogenous Interacting Agents*, Springer, Lecture Notes in Economics and Mathematical Systems, 503, 327-343.
10. Jonard, Nicolas, Llerena, Patrick and Babak Mehmanpazir (1998) "Networks Competition under Local Interaction and Behavioral Learning", in Cohendet, Patrick, Llerena, Patrick, Stahn, Hubert and Gisèle Umbhauer, *The Economics of Networks: Interaction and Behaviours*, Springer, 149-166.
11. Jonard, Nicolas and Murat Yildizoglu (1998) "Interaction between Local Interactions: Localized Learning and Network Externalities", in Cohendet, Patrick, Llerena, Patrick,

Stahn, Hubert and Gisèle Umbhauer, *The Economics of Networks: Interaction and Behaviours*, Springer, 189-204.

## **BOOK EDITED**

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*Heterogenous Agents, Interactions and Economic Performance* (2002) Cowan, Robin and Nicolas Jonard (Eds.), Springer, Lecture Notes in Economics and Mathematical Systems, 521.

## **CONFERENCES AND SEMINARS**

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“Experiments on knowledge exchange networks.”, with Robin Cowan and Bulat Sanditov:  
ZiF workshop on R&D collaboration networks, Bielefeld, October 2009.

“Network-independent partner selection and the evolution of innovation networks”, with Joel Baum and Robin Cowan:  
Best Paper Award of the Organization and Management Theory Division, Academy of Management Annual Meeting, Chicago, August 2009.

“Patent Races on Innovation Networks”, with Robin Cowan and Bulat Sanditov:  
International Conference on Network Modelling and Economic Systems, Lisbon, October 2008.

“If the Alliance Fits...: Innovation and Network Dynamics”, with Robin Cowan:  
GREQAM Seminar, Marseille, February 2008.

“Knowledge Portfolios and the Organization of Innovation Networks”, with Robin Cowan:  
Network Strategy Conference, Toronto, May 2007.  
Distributed Networks and the Knowledge-based Economy, Juan les Pins, May 2007.

“Innovation networks and the distribution of knowledge”, with Robin Cowan:  
1st International Conference on Economic Sciences with Heterogeneous Interacting Agents (formerly WEHIA), Bologna, June 2006;  
DRUID Summer Conference 2006, Copenhagen, June 2006.

“Clusters, Ideas and Shortcuts”, with Robin Cowan:  
Workshop “Innovation networks: Developing an integrated approach”, Augsburg, October 2005.

“Status and the Evolution of Social Structure: Dynasties, Meritocracy and Cycles”, with Robin Cowan:  
Agregation et Marchés, Colloque en l'honneur d'Alan Kirman, Marseille, June 2005.

“Networks as Emergent Structures from Bilateral Collaboration”, with Robin Cowan and Jean Benoit Zimmermann:  
DRUID Tenth Anniversary Summer Conference, Copenhagen, June 2005;  
Workshop on Structure and Function of Complex Networks, Trieste, May 2005.

- “Complementaries and spillovers: On the economics of R&D alliances with public knowledge”, with Robin Cowan and Jean-Benoit Zimmermann:  
 International Schumpeter Society Meeting, Milan, June 2004;  
 DRUID Summer Conference 2004 “Industrial Dynamics, Innovation and Development”, Copenhagen, June 2004;  
 Proxi 2004, Marseille, June 2004.
- “On the Creation of Networks and Knowledge”, with Robin Cowan and Jean-Benoit Zimmermann:  
 Conference on “Market Dynamics”, Nice Sophia Antipolis, November 2003;  
 Seminar, Tilburg University, October 2001.
- “Changing Places: Networks and Job Markets in Open Science”, with Robin Cowan:  
 DRUID Summer Conference, Aalborg, June 2003;  
 European Association of Research in Industrial Economics (EARIE), Helsinki, August 2003.
- “The Joint Dynamics of Networks and Knowledge”, with Robin Cowan and Jean-Benoit Zimmermann:  
 EAEPE Conference, Aix en Provence, November 2002;  
 Workshop on Economics with Heterogenous Interacting Agents, Triesta, June 2002;  
 DRUID Summer Conference, Aalborg, June 2002;  
 Eighth International Conference of the Society for Computational Economics, Aix en Provence, June 2002;  
 Seminar, GREQAM, Marseille (France), January 2002;  
 Max Planck Institute Iena, December 2001;  
 Workshop on Economics with Heterogenous Interacting Agents, Maastricht, June 2001.
- “The Workings of Scientific Communities”, with Robin Cowan:  
 NPR-Net workshop, Paris, May 2001;  
 Max Planck Institute, Iena, December 2002.
- “The Dynamics of Imitation in Structured Populations”, with Eric Schenk and Anthony Ziegelmeyer:  
 Workshop on Economics with Heterogenous Interacting Agent, Marseille, June 2000.
- “The Dynamics of Collective Invention”, with Robin Cowan:  
 Workshop on Economics with Heterogenous Interacting Agents, Marseille, June 2000.
- “Network Structure and the Diffusion of Knowledge”, with Robin Cowan:  
 CNAM, Seminar C4C, Paris, April 2003;  
 Seminar, University Christian Albrecht, Kiel, January 2000;  
 Workshop on Economics with Heterogenous Interacting Agents, Genoa, June 1999;  
 Second Munich Workshop on Network Economics, Munich, May 1999;  
 Seminar, GREQAM, Marseille, May 1999.
- “A Duopoly Logit Model with Price Competition and Strategic Compatibility”, with Eric Schenk:  
 Econometric Society European Meeting, Saint Jacques de Compostelle, September 1999;  
 European Association of Research in Industrial Economics Meeting, Torino, September

1999;

Fifth International Conference in Applied Public Economy, Brest, June 1999;

Second Munich Workshop on Network Economics, Munich, May 1999.

“Open Standard Compatibility: Network Externalities versus Product Differentiation”, with Eric Schenk:

Conference on the Economics of Technological and Institutional Change, Strasbourg, October 1998;

Meeting of the European Economic Association, Berlin, September 1998;

European Association of Research in Industrial Economics Meeting, Copenhagen, September 1998

“Sources of Technological Diversity”, with Murat Yildizoglu:

Seventh Meeting of the International Schumpeter Society, Vienna, June 1998.

“A Genetic Algorithm to Solve the Multi-Level Lot Sizing Problem in MRP Systems”, with Nico Dellaert and Jully Jeunet:

Tenth International Working Seminar on Production Economics, Innsbruck, February 1998.

“A Speculative Centralized Market with Heterogenous Agents”, with Francesca Chiaromonte and Giovanni Dosi: Maastricht University, February 1999.

“Technological Diversity in an Evolutionary Industry Model with Localized Learning and Network Externalities”, with Murat Yildizoglu:

Third International Conference on Computation in Economics and Finance, Stanford, July 1997;

Third International Meeting of the Society for Advancement in Economic Theory, Antalya, July 1997;

International Workshop on Economic Evolution, Learning and Complexity: Econometric, Experimental and Simulation Approaches, Augsburg, May 1997;

International Conference on Innovation and Evolution, Maastricht, September 1996.

## **CURRENT RESEARCH AND SUBMITTED WORK**

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“Network effects versus network strategies”, with Joel Baum and Robin Cowan

“Fits and Misfits: Technological Matching and R&D Networks”, with Robin Cowan and Bulat Sanditov

“Experiments on knowledge exchange networks”, with Robin Cowan and Bulat Sanditov.

“Imitation and Efficient Contagion” with Tristan Boyer.

## **REFEREEING**

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Computers and Operations Research

Industrial and Corporate Change

Journal of Evolutionary Economics

Journal of Economic Dynamics and Control

Physical Review E

M@n@gement  
Economics of Innovation and New Technology  
Journal of Economic Behavior and Organization  
Structural Change and Economic Dynamics  
Journal of Artificial Societies and Social Simulation  
Economie et Prévision  
Annales d'Economie et de Statistiques  
Revue Economique

## **PARTICIPATION TO RESEARCH PROJECTS**

---

“The Small World of Banking in Benelux” (BABE, 2009-2011), FNR CORE programme.

“Network Models, Governance and R&D Collaboration Networks” (NEMO, 2006-2009), EU FP6, STREP programme, Coordinator: ARC Systems Research, Vienna.

“Réseaux, Coalitions et Marchés: Une approche interactionniste de la complexité” (2003-2005), ACI “Systèmes Complexes en SHS” Ministère de la Recherche/CNRS, Coordinator: GREQAM, Marseille.

“Innovation, Networks and the Creation of Knowledge” (iNeck, 2003-2005), EU FP5, Coordinator: MERIT, Maastricht.

“Innovation and Networks: Structural Effects on Knowledge Creation and Diffusion” (2000), France-Canada Research Fund.

“TIPIK: Technology and Infrastructure Policy in the Knowledge-Based Economy” (TIPIK, 1998-2000), EU FP4, TSER programme, Coordinator: BETA, Strasbourg.

“Structures d’interactions, dynamique de l’innovation et politiques technologiques” (1998-1999), CNRS programme “Les enjeux économiques de l’innovation”.

“Entreprises en réseaux” (1994-1996), France Telecom.

## **INTERNATIONAL EXPERIENCE**

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October 2004: Visiting researcher, Technical University Vienna and ARC Systems Research, Vienna

July 2004, July 2003: Visiting researcher, Scuola Superiore Sant’Anna, Pisa

August 2002, July-August 2001: Visiting researcher, MERIT, Universiteit Maastricht

July 2002 and January 2002: Visiting Researcher, University of Waterloo

December 1999, July-August 1998, December 1996: Visiting researcher, International Institute for Applied Systems Analysis (IIASA), Laxenburg