

BERT DE REYCK

Professor and Director

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ACADEMIC APPOINTMENTS

2015 – present	Professor and Director UCL School of Management University College London, London, UK
2011 – present	Visiting Professor London Business School, UK University of Ghent, Belgium
2009 – 2015	Professor and Head of Department Department of Management Science & Innovation University College London, London, UK
2009 – 2011	Adjunct Professor Department of Management Science & Operations London Business School, London, UK
2007 – 2009	Associate Professor and Deputy Head of Department Research Department of Management Science & Innovation University College London, London, UK
2007 – 2009	Adjunct Associate Professor Department of Management Science & Operations London Business School, London, UK
2001 – 2007	Associate Professor Department of Decision Sciences London Business School, London, UK
2005 – 2006	Visiting Associate Professor Department of Managerial Economics and Decision Sciences Kellogg Graduate School of Management, Northwestern University, Evanston, IL
1999 – 2001	Assistant Professor Department of Decision Sciences London Business School, London, UK
1998 – 1999	Assistant Professor Department of Management of Technology & Innovation Rotterdam School of Management, Erasmus University, Rotterdam, The Netherlands

EDUCATION

1992 – 1998	PhD in Operations Management	<i>University of Leuven, Belgium</i>
1991 – 1992	M.Sc. in Management Information Systems Magna cum laude	<i>University of Leuven, Belgium</i>
1988 – 1991	B.Sc. in Engineering Management Magna cum laude	<i>University of Leuven, Belgium</i>

RESEARCH HONOURS & AWARDS

2014	4* REF Case Study	<i>Research Evaluation Framework</i>	
	“An integrated decision-making framework for improving European air traffic management”		
2014	Semi-finalist for Daniel H. Wagner Prize for Excellence in Operations Research	<i>INFORMS</i>	
	“Optimizing Maritime Transshipment Operations for the Noble Group”		
2013	Decision Analysis Society Best Publication Award	<i>Decision Analysis Society</i>	
	For contributing “Valuation of risky projects and other illiquid investments using portfolio selection models” to <i>Portfolio Decision Analysis</i> , International Series in Operations Research and Management Science, Ed. F. S. Hillier, Springer, 2011.		
2010	Finalist for Best Paper Award	<i>IEEE Engineering Management Society</i>	
	“The effect of activity duration variability on the eNPV of projects that allow for alternative technologies in uncertain environments”, <i>Proceedings of the IEEE International Conference on Industrial Engineering and Engineering Management</i>		
2009	Top 10 most-cited articles of all time	<i>Computers and Operations Research</i>	
	“Resource-constrained project scheduling - A survey of recent developments”		
2008	Best Paper Award	<i>IEEE Engineering Management Society</i>	
	“Project scheduling for maximum net present value with variable activity durations and uncertain activity outcomes”, <i>Proceedings of the IEEE International Conference on Industrial Engineering and Engineering Management</i>		
2008	Finalist for Daniel H. Wagner Prize for Excellence in Operations Research	<i>INFORMS</i>	
	“Towards a single European sky”, <i>Interfaces</i>		
2007	Finalist for Decision Analysis Society Practice Award	<i>INFORMS</i>	
	“An integrated decision-making approach for improving European air traffic management”, <i>Management Science</i>		
2003	Finalist for Excellence in Practice Award	<i>EURO</i>	
	“Broadcast scheduling for mobile advertising”, <i>Operations Research</i>		
1998 – 1999	Fellow, Erasmus Institute for Management Studies	<i>ERIM</i>	
	Fellow, Institute for Transport, Infrastructure and Logistics	<i>TRAIL</i>	
	Fellow, Royal Netherlands Academy of Arts and Sciences	<i>KNAW</i>	

TEACHING HONOURS & AWARDS

2007, 2008, 2013	MBA Teaching Award	<i>London Business School</i>
2010, 2011	M.Sc. in Technology Entrepreneurship Teaching Award	<i>University College London</i>
2001, 2003, 2006	Faculty Teaching Award	<i>London Business School</i>
2004, 2006, 2008	Case Competition Award	<i>INFORMS</i>
	With “Project Portfolio Management at Novartis Pharma” and “Phytopharm plc”	
	Runner-up in 2008 with “Towards a Single European Sky”	

RESEARCH GRANTS

2010 – 2012	Technology Strategy Board	£1,199,575
	Regenerative Medicine Programme: Value System and Business Models, Co-Investigator	
2000 – 2008	London Business School Research & Materials Development Fund	£53,600
	Resource Allocation in Project Management, Principal Investigator, £4,800 (2008)	
	Resource Allocation in Project Management, Principal Investigator, £4,800 (2008)	
	R&D Project Valuation, Principal Investigator, £11,600 (2006)	
	Project Valuation in Mixed Asset Portfolio Selection, Principal Investigator, £14,000 (2005)	
	Project Portfolio Management at Novartis Pharma, Principal Investigator, £5,200 (2004)	
	The Aftermath of the World Trade Center Collapse, Principal Investigator, £8,000 (2002)	
	New Methods for Resource Allocation in Projects, Principal Investigator, £5,000 (2001)	
	Cases on Monte-Carlo and Discrete-Event Simulation, Principal Investigator, £5,000 (2000)	

INDUSTRY SPONSORSHIP AND PROJECTS

(amounts not disclosed)

2016 – present	Eurocontrol and Heathrow Airport Big-data collaborative decision making support for the Airport Operations Centre
2014 – present	Great Ormond Street Hospital Decision support for epilepsy diagnosis and surgery in children
2013 – 2015	Department for Transport Forecasting costs for major infrastructure projects
2012 – 2015	Network Rail Analysis of optimism bias in UK rail projects
2013 – 2014	Vungle Recommendation engine development for mobile advertising
2014	Merck Serono Pharmaceutical project portfolio management
2012 – 2013	Noble Group Optimization of transshipment operations in Indonesia
2006	Eaton Aerospace Project management for F-35 Joint Strike Fighter project
2005 – 2006	EuroControl European air traffic control system selection and optimization
2004	Dunlop Aerospace Project management for Boeing 787 project
2004	Phytopharm Pharmaceutical R&D project valuation and licensing negotiations support

TEACHING ACTIVITIES

2000 – present	Project Management MBA and Executive MBA, London Business School (2000–present) MSc in Technology Entrepreneurship, University College London (2008–2010) DIMP, China Europe International Business School, CEIBS (2011) MBA, Kellogg Graduate School of Management, Northwestern University (2006)
2005 – present	Executive Education Sberbank (2015–present), Oman Oil (2012–2013), Lloyd's (2011–2013), Continental (2012), Shire (2009, 2011), United Health Group (2011), CEIBS (2011), Roche (2009), Diageo (2008), PwC (2007), Sanofi-Pasteur MSD (2005–2007), Merck (2006)
2005 – 2013	Decision Models EMBA-Global Americas & Europe, London/Columbia Business School (2005–2010) EMBA-Global Asia, London/Columbia/Hong Kong University Business School (2011–2013)
1999 – 2010	Decision & Risk Analysis MSc Management, University College London (2007–2010) MSc in Technology Entrepreneurship, University College London (2007–2010) MBA, London Business School (1999–2007)

PH.D. SUPERVISION

Supervisor

2013 – present	Xiaoja Guo	<i>University College London</i>
2008 – 2014	Ioannis Fragkos “Large-scale optimisation in operations management: Algorithms and applications” Assistant Professor at Rotterdam School of Management, Erasmus University Rotterdam	<i>University College London</i>
2003 – 2009	Yael Grushka-Cockayne “Introduction of technological innovations: Valuation, selection and timing” Tenured Associate Professor at Darden School of Business, University of Virginia	<i>London Business School</i>
2002 – 2007	Pascale Crama “Designing licensing contracts for research and development projects” Assistant Professor at Lee Kong Chian School of Business, Singapore Management University	<i>London Business School</i>

2nd Supervisor & Committee Member

2014 – present	Verena Vickovic “Equilibrium analysis of carbon emissions caps in regional electricity markets”	<i>University College London</i>
2010 – 2016	Yufei Hang “New product introduction and sales”	<i>University College London</i>
2010 – 2016	Emmanouil Avgerinos “Team and task dynamics in healthcare and professional service operations”	<i>University College London</i>
2009 – 2014	Lajos Horvat “Decision making under uncertainty and competition for sustainable energy technologies”	<i>University College London</i>
2008 – 2013	Sebastiano Massaro “Cognitive and affective features of interpersonal dynamics in knowledge-intensive organizations”	<i>University College London</i>
2008 – 2013	Chia-Yu Kou “Understanding implicit assumptions in learning: role of motivation and formal structure”	<i>University College London</i>
2008 – 2011	Songsong Liu “Supply chain management for the process industry”	<i>University College London</i>
2007 – 2011	Michail Chronopoulos “Optimal decision making under risk aversion and uncertainty”	<i>University College London</i>
2006 – 2009	Janne Kettunen “Stochastic optimization in the management of market uncertainties”	<i>London Business School / Helsinki University of Technology</i>
2004 – 2008	Toni Jarimo “Optimal design of collaborative innovation networks”	<i>Helsinki University of Technology</i>
2004 – 2008	Jade Herbots “Capacity allocation in project portfolio management”	<i>University of Leuven</i>
2003 – 2005	Janne Gustafsson “Contingent portfolio programming for the management of risky projects”	<i>London Business School / Helsinki University of Technology</i>
2002 – 2006	Mohammad Ranjbar “Heuristics for resource-constrained project planning”	<i>London Business School / Sharif University of Technology</i>
1998 – 2003	Roel Leus “The generation of stable project plans: Complexity and exact algorithms”	<i>University of Leuven</i>
1996 – 2001	Mario Vanhoucke “Exact algorithms for various types of project scheduling problems”	<i>University of Leuven</i>

PROFESSIONAL ACTIVITIES

MEMBER	Institute for Operations Research and Management Science Institute of Industrial Engineers Project Management Institute Production and Operations Management Society	<i>INFORMS</i> <i>IIE</i> <i>PMI</i> <i>POMS</i>
EDITORIAL BOARD	Journal of Decision Processes (2012 – 2015) Wickham Skinner Awards (2009) INFORMS Case Competition Award (2005)	<i>EURO</i> <i>POMS</i> <i>INFORMS</i>
AD-HOC REVIEWER	Operations Research, Management Science, Manufacturing and Services Operations Management, Marketing Science, Informatics Journal on Computing, IIE Transactions, European Journal of Operational Research	
SCHOOL COMMITTEES	China Steering Committee (2014 – present) Learning and Teaching Review Committee (2014) UCL Senior Promotions Committee (2012 – 2013) Engineering Management Review Committee (Chair, 2013) MS&I Research Committee, Chair (2007 – 2009) MBA Curriculum Committee (2001 – 2006) Examiners Board (2000 – 2008)	University College London <i>Cambridge Business School</i> <i>University College London</i> <i>Melbourne University</i> <i>University College London</i> <i>London Business School</i> <i>London Business School</i>

PUBLICATIONS

CITATIONS	Google Scholar: 2,700 citations; ISI: 500 citations;	h-index: 22; h-index: 12;
SELECT TOP JOURNALS	<p>“Licensing contracts: Control rights, options and timing”, <i>Management Science</i>, forthcoming (with P. Crama and N. Taneri)</p> <p>“An integrated decision-making approach for improving European air traffic management”, <i>Management Science</i>, 2008, 54 (8), 1395-1409 (with Z. Degraeve and Y. Grushka-Cockayne).</p> <p>“Milestone payments or royalties? Contract design for R&D licensing”, <i>Operations Research</i>, 2008, 56 (6), 1539-1552 (with P. Crama and Z. Degraeve).</p> <p>“Broadcast scheduling for mobile advertising”, <i>Operations Research</i>, 2003, 51 (4), 509-517 (with Z. Degraeve).</p>	
SELECT PRACTITIONER JOURNALS	<p>“On improving the maritime transshipment operations at the Noble Group”, <i>Interfaces</i>, forthcoming (with I. Fragkos)</p> <p>“Towards a Single European Sky”, <i>Interfaces</i>, 2009, 39, 400-414 (with Y. Grushka-Cockayne).</p> <p>“R&D project valuation and licensing negotiations at Phytopharm Ltd.”, <i>Interfaces</i>, 2007, 37 (5), 472–487 (with P. Crama, Z. Degraeve and W. Chong).</p>	

- "A Horizon Decomposition approach for the Capacitated Lot Sizing Problem with Setup Times", *INFORMS Journal on Computing*, forthcoming (with Z. Degraeve and I. Fragkos)
- "Period decompositions for the capacitated lot size problem with setup times", *INFORMS Journal on Computing*, forthcoming (with S. A. de Araujo, Z. Degraeve, I. Fragkos, R. Jans)
- "New product development flexibility in a competitive environment", *European Journal of Operational Research*, 2015, 244(3), 892–904 (with J. Kettunen, Y. Grushka-Cockayne, Z. Degraeve)
- "Project planning with alternative technologies in uncertain environments", *European Journal of Operational Research*, 2015, 242 (2), 465–476 (with S. Creemers and R. Leus).
- "Duopolistic competition under risk aversion and uncertainty", *European Journal of Operational Research*, 2014, 236, 643-656 (with A. Siddiqui and M. Chronopoulos).
- "The value of capacity sizing under risk aversion and operational flexibility", *IEEE Transactions on Engineering Management*, 2013, 60 (2), 272-288 (with M. Chronopoulos and A. Siddiqui)
- "Step by step. The benefits of stage-based R&D licensing contracts" *European Journal of Operational Research*, 2013, 224 (3), 572-582 (with P. Crama and Z. Degraeve).
- "Effective project planning: making the most of project planning tools", *Production & Inventory Management*, 2011, 46 (2), 10-25.
- "Optimal investment and operational decision making under risk aversion and uncertainty", *European Journal of Operational Research*, 2011, 213 (1), 221-237 (with A. Siddiqui and M. Chronopoulos).
- "A hybrid Scatter Search and Path Relinking algorithm for the discrete time/resource trade-off problem in project scheduling", *European Journal of Operational Research*, 2009, 193 (1), 35-48 (with M. Ranjbar and F. Kianfar).
- "R&D project scheduling when activities may fail", *IIE Transactions*, 2008, 40 (4), 367-384 (with R. Leus).
- "Project options valuation using Net Present Value and Decision Tree Analysis", *European Journal of Operational Research*, 2008, 184 (1), 341-355 (with Z. Degraeve and R. Vandenborre).
- "MABS: Spreadsheet-based decision support for precision marketing", *European Journal of Operational Research*, 2006, 171(3), 935-950, feature issue for the Excellence in Practice Award of the Association of European Operational Research Societies (with Z. Degraeve).
- "A hybrid Scatter Search / Electromagnetism meta-heuristic for project scheduling", *European Journal of Operational Research*, 2006, 169 (2), 638-653 (with D. Debels, R. Leus and M. Vanhoucke).
- "On 'Investment decisions in the theory of finance: some antinomies and inconsistencies'", *European Journal of Operational Research*, 2005, 161(2), 499-504.
- "The impact of project portfolio management on information technology projects", *International Journal of Project Management*, 2005, 23 (7), 524-537 (with S. Calderini, Y. Grushka-Cockayne, M. Lockett, M. Moura and A. Sloper).
- "On the paper 'Resource-constrained project scheduling: notation, classification, models and methods' by Brucker et al.", *European Journal of Operational Research*, 2001, 128, 679-688 (with W. Herroelen and E. Demeulemeester).
- "The discrete time/resource trade-off problem in project networks - A branch-and-bound approach", *IIE Transactions*, 2000, 32, 1059-1069 (with E. Demeulemeester and W. Herroelen).
- "The multi-mode resource-constrained project scheduling problem with generalized precedence relations", *European Journal of Operational Research*, 1999, 119 (2), 538-556 (with W. Herroelen).
- "Phase transitions in project scheduling", *Journal of the Operational Research Society*, 1999, 50 (2), 148-156 (with W. Herroelen).
- "Local search methods for the discrete time/resource trade-off problem in project networks", *Naval Research Logistics*, 1998, 45, 553-578 (with E. Demeulemeester and W. Herroelen).

"A branch-and-bound algorithm for the resource-constrained project scheduling problem with generalized precedence relations", *European Journal of Operational Research*, 1998, 111 (1), 152-174 (with W. Herroelen).

"An optimal procedure for the resource-constrained project scheduling problem with discounted cash flows and generalized precedence relations", *Computers and Operations Research*, 1998, 25 (1), 1-17 (with W. Herroelen).

"Resource-constrained project scheduling - A survey of recent developments", *Computers and Operations Research*, 1998, 25 (4), 279-302 (with W. Herroelen and E. Demeulemeester).

"New computational results for the discrete time/cost trade-off problem in project networks", *Journal of the Operational Research Society*, 1998, 49 (11), 1153-1163 (with E. Demeulemeester, B. Foubert, W. Herroelen and M. Vanhoucke).

"On the use of the complexity index as a measure of complexity in activity networks", *European Journal of Operational Research*, 1996, 91, 347-366 (with W. Herroelen).

BOOK CHAPTERS (REFEREED)

"Valuation of risky projects and other illiquid investments using portfolio selection models", *Portfolio Decision Analysis*, International Series in Operations Research and Management Science, Ed. F. S. Hillier, Springer, 2011 (with J. Gustafsson, Z. Degraeve, A. Salo).

"Using decision analysis to value R&D projects", in *QFinance*, Bloomsbury Publishing, 2009.

"A classification scheme for project scheduling problems", Chapter 1 in Weglarz, J. (Ed.), *Project Scheduling – Recent Models, Algorithms and Applications*, Kluwer International Series in Operations Research and Management Science, 1998, Vol. 14, 1-26, Kluwer Academic Publishers (with W. Herroelen and E. Demeulemeester).

"Algorithms for scheduling projects with generalized precedence relations", Chapter 4 in Weglarz, J. (Ed.), *Project Scheduling – Recent Models, Algorithms and Applications*, Kluwer International Series in Operations Research and Management Science, 1998, Vol. 14, 77-106, Kluwer Academic Publishers (with E. Demeulemeester and W. Herroelen).

"Resource-constrained project scheduling - A survey of recent developments", in Zimmerman, U., Derigs, U., Gaul, W., Möhring, R.H. and Schuster, K.P., *Operations Research Proceedings*, Springer, Heidelberg, 1997, 197-202 (with W. Herroelen and E. Demeulemeester).

MAGAZINES & NEWSPAPERS

"Decisions more important than Results", *Business Strategy Review*, 2010 (with Z. Degraeve)

"Managing project portfolios", *Business Strategy Review*, 2008.

"Tools to keep projects on the rails", *Financial Times*, 9 September 2005.

CONFERENCES

More than 50 papers presented at the following conferences

INFORMS Annual Meeting (1994 – 2015)

INFORMS International Meeting (1997, 2003, 2007, 2013)

POMS Annual Conference (1998, 2004, 2011, 2014)

IEEE Conference on Industrial Engineering and Engineering Management (2008 – 2011)

IFORS Triennial Conference (1996, 2011)

EURO Annual Conference (1998 – 2014)

EURO-PMS (1994 – 2010)

MSOM Annual Meeting (2009)

MISTA (2007 – 2010)

DSI Annual Meeting (2001)

CASES

"A/B testing at Vungle" (2015)

"Agile project management at CA" (2009)

"Microsoft's Xbox 360 and the battle of the consoles" (2008)

"Toward a single European sky" (2006), finalist for *2007 INFORMS Case Competition Award*.

"Phytopharm plc." (2006), winner of *2006 INFORMS Case Competition Award*.

"Project portfolio management at Novartis Pharma" (2004), winner of *2004 INFORMS Case Competition Award*.

"The aftermath of the World Trade Center collapse" (2003)