

Peter JACKO

Curriculum Vitae, January 2020

:: PERSONAL DATA

Name: Peter
Surname: Jacko
Gender: Male
Citizenship: Slovakia (EU)
Mobile: +44-7980 111 128
E-mail: peter.jacko@gmail.com
Webpage: [at Google Scholar](#)

:: PRESENT EMPLOYMENT DATA

Position: Lecturer in Management Science
Address: Department of Management Science
Lancaster University Management School
Lancaster University
Lancaster, LA1 4YX, UK
E-mail: p.jacko@lancaster.ac.uk
Webpage: [at Lancaster University](#)

:: EDUCATION

PhD cum laude, *Business Administration and Quantitative Methods*, Universidad Carlos III de Madrid, Spain 2009
• Thesis: *Marginal Productivity Index Policies for Dynamic Priority Allocation in Restless Bandit Models*
DEA (MRes equivalent), *Statistics and Operations Research*, Universidad Carlos III de Madrid, Spain 2006
• Thesis: *Mathematical Programming Approach to Dynamic Resource Allocation Problems*
Mgr (MSc equivalent), *Mathematics*, P. J. Šafárik University in Košice, Slovakia 2003
• Thesis: *Distance Colorings of Graphs*
Bc (BSc equivalent), *Mathematics*, P. J. Šafárik University in Košice, Slovakia 2002

:: EMPLOYMENT HISTORY

University of Cambridge, UK 2017 – 2017
• Visiting Researcher (unpaid); MRC Biostatistics Unit (01/2017 – 03/2017)
Lancaster University, UK 2013 –
• Lecturer in Management Science; Department of Management Science (2013 –)
• Member of STOR-i Doctoral Training Centre (2013 –), Member of Data Science Institute (2015 –)
• Senior Research Associate; Department of Management Science & LANCS Initiative (2013 – 2013)
Basque Center for Applied Mathematics, Spain 2009 – 2014
• External Scientific Member (unpaid); Heuristic Optimization group (2014 – 2018)
• Researcher (25% part-time); Networks group (2013 – 2014)
• Researcher and Co-Leader; Networks group (2012 – 2013)
• Postdoctoral Fellow; Networks group (2009 – 2012)
Universidad Carlos III de Madrid, Spain 2003 – 2009
• Research Staff Development (FPI) Programme Fellow; Department of Statistics (2005 – 2009)
• Teaching Assistant; Department of Business Administration (2003 – 2005)

:: RESEARCH

Stochastic modelling and optimisation for the design and management of complex processes, systems and networks

INTERESTS

Fields: Operational Research / Management Science / Decision Analytics, Optimisation, Statistics / Data Science
Areas: Stochastic Modelling, Performance Evaluation, Queueing Theory, Applied Probability, Machine Learning
Problems: Resource Allocation, Scheduling, Sequential Learning, Networks Optimisation, Multi-armed Bandits
Methods: Markov Decision Processes, Dynamic Programming, Stochastic/Bayesian Analysis, Heuristics Design

MOTIVATION AND APPLICATIONS

Public Health: Adaptive Clinical Trials, Personalised Medicine
Business: Retail, Contact Centres
Communications: Wireless Data Networks (D2D, 4G LTE), Internet (TCP, ICN)

METRICS

H-index: 14

source: Google Scholar, 2020

Erdős number: 3

source: MathSciNet Calculator, 2020

BOOK

P. Jacko. *Dynamic Priority Allocation in Restless Bandit Models*. Lambert Academic Publishing, 2010. Invited book.

PATENT

U. Ayesta and P. Jacko. Method for selecting a transmission channel within a time division multiple access (TDMA) communications system, 2013.

SOFTWARE

P. Jacko. BinaryBandit Julia package, 2019a. URL <https://github.com/PeterJacko/BinaryBandit>.

P. Jacko. BinaryBandit R Shiny App, 2019b. URL <https://peterjacko.shinyapps.io/binarybandit-app/>.

WORK IN PROGRESS

P. Jacko. The finite-horizon two-armed bandit problem with binary responses: A multidisciplinary survey of the history, state of the art, and myths. 2019a. Management Science Working Paper 2019:3, Lancaster University Management School. arXiv:1906.10173. Submitted.

P. Jacko. BinaryBandit: An efficient Julia package for optimization and evaluation of the finite-horizon bandit problem with binary responses. 2019b. Management Science Working Paper 2019:4, Lancaster University Management School. Submitted.

U. Satiç, P. Jacko, and C. Kirkbride. Performance evaluation of scheduling policies for the dynamic and stochastic resource-constrained multi-project scheduling problem. 2019. Submitted.

F. Garuba, M. Goerigk, and P. Jacko. A comparison of data-driven uncertainty sets for robust network design. 2019a. Submitted.

F. Garuba, M. Goerigk, and P. Jacko. A comparison of models for uncertain network design. 2019b. arXiv:1901.03586. Submitted.

T. Dokka Venkata Satyanaraya, P. Jacko, and W. Aslam. Non-parametric dynamic pricing: a non-adversarial robust optimization approach. 2018. Lancaster University Management School Working Paper 2018:3. Submitted.

PUBLICATIONS (PEER-REVIEWED JOURNALS)

S. Ford, M. P. Atkinson, K. Glazebrook, and P. Jacko. On the dynamic allocation of assets subject to failure. *European Journal of Operational Research*, 2019. Available online 13 December 2019.

U. Satiç, P. Jacko, and C. Kirkbride. Performance evaluation of scheduling policies for the DRCMPSP. *Lecture Notes in Computer Science*, 2019. In press.

F. Garuba, M. Goerigk, and P. Jacko. Robust network capacity expansion with non-linear costs. *OpenAccess Series in Informatics*, 75:5:1–5:13, 2019.

S. F. Williamson, P. Jacko, S. S. Villar, and T. Jaki. A Bayesian adaptive design for clinical trials in rare diseases. *Computational Statistics and Data Analysis*, 113C:136–153, 2017.

U. Ayesta, P. Jacko, and V. Novak. Scheduling of multi-class multi-server queueing systems with abandonments. *Journal of Scheduling*, 20(2):129–145, 2017.

P. Jacko, E. Morozov, L. Potakhina, and I. M. Verloop. Maximal flow-level stability of best-rate schedulers in heterogeneous wireless systems. *Transactions on Emerging Telecommunications Technologies*, 28(1):e2930–n/a, 2017.

U. Ayesta, M. Erausquin, E. Ferreira, and P. Jacko. Optimal dynamic resource allocation to prevent defaults. *Operations Research Letters*, 44(4):451–456, 2016.

P. Jacko. Resource capacity allocation to stochastic dynamic competitors: Knapsack problem for perishable items and index-knapsack heuristic. *Annals of Operations Research*, 241(1):83–107, 2016.

- F. Cecchi and P. Jacko. Nearly-optimal scheduling of users with Markovian time-varying transmission rates. *Performance Evaluation*, 99(C):16–36, 2016.
- I. Taboada, F. Liberal, and P. Jacko. An opportunistic and non-anticipating size-aware scheduling proposal for mean holding cost minimization in time-varying channels. *Performance Evaluation*, 79:90–103, 2014. Special Issue: Performance 2014. Acceptance rate: 27%.
- D. Graczová and P. Jacko. Generalized restless bandits and the knapsack problem for perishable inventories. *INFORMS Operations Research*, 62(3):696–711, 2014.
- A. Asadi, P. Jacko, and V. Mancuso. Modeling D2D communications with LTE and WiFi. *Performance Evaluation Review*, 42(2):55–57, 2014. Special issue: Proceedings of MAMA 2014.
- K. Avrachenkov, U. Ayesta, J. Doncel, and P. Jacko. Congestion control of TCP flows in Internet routers by means of index policy. *Computer Networks*, 57(17):3463–3478, 2013.
- F. Cecchi and P. Jacko. Scheduling of users with Markovian time-varying transmission rates. *Performance Evaluation Review*, 41(1):129–140, 2013. Special Issue: ACM Sigmetrics 2013. Acceptance rate: 14%.
- K. Avrachenkov, U. Ayesta, J. Doncel, and P. Jacko. Optimal congestion control of TCP flows for Internet routers. *Performance Evaluation Review*, 40(3):62–64, 2012. Special issue: Proceedings of MAMA 2012.
- P. Jacko and B. Sansò. Optimal anticipative congestion control of flows with time-varying input stream. *Performance Evaluation*, 69(2):86–101, 2012.
- P. Jacko. Value of information in optimal flow-level scheduling of users with Markovian time-varying channels. *Performance Evaluation*, 68(11):1022–1036, 2011. Special Issue: Performance 2011. Acceptance rate: 20%.
- U. Ayesta, M. Erausquin, and P. Jacko. A modeling framework for optimizing the flow-level scheduling with time-varying channels. *Performance Evaluation*, 67:1014–1029, 2010. Special Issue: Performance 2010. Acceptance rate: 26%.
- P. Jacko and J. Niño-Mora. Time-constrained restless bandits and the knapsack problem for perishable items (extended abstract). *Electronic Notes in Discrete Mathematics*, 28:145–152, 2007.
- P. Jacko and S. Jendrol'. Distance coloring of the hexagonal lattice. *Discussiones Mathematicae Graph Theory*, 25(1-2):151–166, 2005.

PUBLICATIONS (PEER-REVIEWED CONFERENCE PROCEEDINGS)

- V. Mancuso, A. Asadi, and P. Jacko. Tie-breaking can maximize fairness without sacrificing throughput in D2D-assisted networks. In *Proceedings of IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, pages 1–9. IEEE Xplore, 2016. Acceptance rate 20%.
- A. Asadi, V Mancuso, and P. Jacko. Floating band D2D: Exploring and exploiting the potentials of adaptive D2D-enabled networks. In *Proceedings of IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, pages 1–9. IEEE Xplore, 2015. Acceptance rate 21%.
- I. Taboada, P. Jacko, U. Ayesta, and F. Liberal. Opportunistic scheduling of flows with general size distribution in wireless time-varying channels. In *Proceedings of the 26th International Teletraffic Congress (ITC)*, pages 1–9. IEEE Xplore, 2014. Acceptance rate: 38%.
- N. Richmond, P. Jacko, and A. M. Makowski. Optimal planning of slow-ramping power production in energy systems with renewables forecasts and limited storage. In *Proceedings of International Conference on Probabilistic Methods Applied to Power Systems (PMAPS)*, pages 1–6. IEEE Xplore, 2014.
- K. Avrachenkov and P. Jacko. CCN interest forwarding strategy as multi-armed bandit model with delays. *Proceedings of the 6th International Conference on Network Games, Control and Optimization (NetGCoOp 2012)*, pages 38–43, 2012. IEEE Xplore.
- P. Jacko and S. S. Villar. Opportunistic schedulers for optimal scheduling of flows in wireless systems with ARQ feedback. In *Proceedings of the 24th International Teletraffic Congress (ITC)*, pages 1–8. IEEE Xplore and ACM Digital library, 2012. Acceptance rate: 33%.
- U. Ayesta, P. Jacko, and V. Novak. A nearly-optimal index rule for scheduling of users with abandonment. In *Proceedings of IEEE Infocom 2011*, pages 2849–2857. IEEE Xplore, 2011. Acceptance rate: 16%.
- P. Jacko and J. Niño-Mora. Admission control and routing to parallel queues with delayed information via marginal productivity indices. In *Proceedings of the Third International Conference on Performance Evaluation Methodologies and Tools (ValueTools)*. ICST, ACM Digital Library, 2008. Acceptance rate: 40%.
- P. Jacko and B. Sansò. Congestion avoidance with future-path information. In *Proceedings of the EuroFGI Workshop on IP QoS and Traffic Control*, pages 153–160. IST Press, 2007.

PUBLICATIONS (INVITED)

- P. Jacko and V. Novak. Whittle's indexation approach to and applications of bi-objective two-state binary-action Markov decision processes. In A. B. Piunovskiy, editor, *Modern Trends in Controlled Stochastic Processes: Theory and Applications*, volume II, pages 140–151. 2015. Invited book chapter.
- U. Ayesta, M. Erausquin, and P. Jacko. Resource-sharing in a single server with time-varying capacity. In *Proceedings of Forty-Ninth Annual Allerton Conference on Communication, Control, and Computing*, pages 377–383. IEEE Xplore, 2011. Invited paper.
- P. Jacko. Optimal index rules for single resource allocation to stochastic dynamic competitors. In *Proceedings of the 5th International ICST Conference on Performance Evaluation Methodologies and Tools (ValueTools)*. ICST, ACM Digital Library, 2011. Invited paper.
- P. Jacko. Restless bandits approach to the job scheduling problem and its extensions. In A. B. Piunovskiy, editor, *Modern Trends in Controlled Stochastic Processes: Theory and Applications*, pages 248–267. Luniver Press, United Kingdom, 2010. Invited book chapter.
- P. Jacko. Adaptive greedy rules for dynamic and stochastic resource capacity allocation problems. *Medium for Econometric Applications*, 17(4):10–16, 2009. Available online at <http://www.met-online.nl>. Invited paper.

CONFERENCE TALKS AND POSTER PRESENTATIONS (2013 – 2020)

- P. Jacko*. Efficient simulation and comparison of adaptive clinical trial designs. Statisticians in the Pharmaceutical Industry (PSI) Conference; London, UK, June 2019.
- P. Jacko*. The patient benefit of arm-acquiring in platform clinical trials. Statisticians in the Pharmaceutical Industry (PSI) Conference; Amsterdam, Netherlands, June 2018a.
- P. Jacko*. Mitigating the curse of dimensionality of the Bayesian Beta-Bernoulli bandit problem. Workshop on Multi-Armed Bandits and Learning Algorithms; Rotterdam, Netherlands, May 2018b. **Invited talk.**
- P. Jacko*. Innovative stochastic modelling and optimisation for the design of modern clinical trials. Workshop on Queueing Theory; Obergurgl, Austria, December 2017a.
- P. Jacko*. Public health benefit of arm-acquiring in platform clinical trials. Adaptive Designs and Multiple Testing Procedures (ADMTP) Workshop; Cambridge, UK, June 2017b.
- P. Jacko*. A Bayesian adaptive design for clinical trials in rare diseases. InSPire Conference on Methodology for Clinical Trials in Small Populations; Coventry, UK, April 2017c. Poster presentation.
- P. Jacko*. A Bayesian adaptive design for clinical trials in rare diseases. IMA and OR Society Conference on Mathematics of Operational Research; Birmingham, UK, April 2017d. **Invited talk.**
- P. Jacko*. A Bayesian adaptive design for clinical trials in rare diseases. All Data Great and Small: Advancing Clinical Research Through Quantitative Science; Cambridge, UK, March 2017e. Poster presentation.
- P. Jacko*. A Bayesian adaptive design for clinical trials in rare diseases. Workshop on Stochastic Models, Statistics and Their Applications; Berlin, Germany, February 2017f. **Invited talk.**
- P. Jacko*. Problems and solutions in the management of queueing systems. Conference on Mathematics in Science and Technology; Klak, Slovakia, January 2016. **Invited keynote talk.**
- P. Jacko*. Problems and solutions in the management of queueing systems. Workshop on Queueing Theory; Obergurgl, Austria, December 2015a. **Invited keynote talk.**
- P. Jacko*. Bayesian bandit models for the optimal design of clinical trials. Fourth Rutgers Applied Probability Conference; New Brunswick, USA, October 2015b. **Invited talk.**
- P. Jacko*. Exploring and exploiting MDP formulations of optimal scheduling of customers with abandonment. Workshop on Trends and Directions of Approximate Dynamic Programming: Solving the Curse of Dimensionality; Colchester, UK, September 2015c. **Invited talk.**
- P. Jacko*. Exploring and exploiting MDP formulations of optimal scheduling of customers with abandonment. INFORMS Applied Probability Society Conference; Istanbul, Turkey, July 2015d.
- P. Jacko*. Exploring and exploiting MDP formulations of optimal scheduling of customers with abandonment. Second Workshop on Modern Trends in Controlled Stochastic Processes; Liverpool, UK, June 2015e. **Invited talk.**
- P. Jacko*. Stochastic scheduling of customers under abandonment. The OR Society Annual Conference (OR56); Egham, UK, September 2014.

- P. Jacko*. Neposední zbojníci a podobné problémy (restless bandits and similar problems). 45th Conference of Slovak Mathematicians; Jasná, Slovakia, November 2013a. **Invited keynote talk.**
- P. Jacko*. Potential improvement scheduler for systems with time-varying service rate. LANCS Initiative Advisory Board meeting; Cumberland Lodge, The Great Park Windsor, UK, November 2013b. **Invited poster presentation.**
- P. Jacko*. Potential improvement scheduler for systems with time-varying service rate. Isaac Newton Institute for Mathematical Sciences Workshop on Modern Probabilistic Techniques for Design, Stability, Large Deviations, and Performance Analysis of Communication, Social, Energy, and Other Stochastic Systems and Networks; Cambridge, UK, August 2013c. Poster presentation.
- P. Jacko*. Scheduling of users with time-varying service rates. Dagstuhl Seminar on Scheduling, March 2013d. **Invited talk.**

SEMINARS (2013 – 2020)

- P. Jacko*. School of Business and Economics, Loughborough University, UK, 2020.
- P. Jacko*. Advanced Analytics Centre, AstraZeneca, Cambridge, UK, 2018a.
- P. Jacko*. Product Development Biometrics Biostatistics Group, Roche Pharmaceuticals, Welwyn Garden City, UK, 2018b.
- P. Jacko*. N4D Lab, Computer Laboratory, University of Cambridge, UK, 2015.
- P. Jacko*. Operations Research Department, Naval Postgraduate School, USA, 2014a.
- P. Jacko*. Department of Industrial Engineering and Operations Research, University of California, Berkeley, USA, 2014b.
- P. Jacko*. Department of Mathematical Sciences, University of Liverpool, UK, 2013a.
- P. Jacko*. Department of Quantitative Economics, Universidad Complutense, Spain, 2013b.

RESEARCH VISITS

- | | |
|---|---|
| MRC Biostatistics Unit, University of Cambridge, UK | 10 weeks in 2017 |
| • hosted by James Wason | |
| IEOR Department, University of California, Berkeley, US | 2 weeks + 2 weeks in 2014 |
| • hosted by Rhonda L. Righter | |
| INRIA, Sophia-Antipolis, France | 1 week + 2 months in 2010; 1 week in 2011 |
| • hosted by Konstantin Avrachenkov | |
| GERAD, HEC Montréal, Canada | 4 months in 2007; 1 week in 2008 |
| • hosted by Brunilde Sansò | |

:: AWARDS, GRANTS AND PROJECTS

AWARDS AND PERSONAL GRANTS

- | | |
|--|-------------|
| Co-funding for several conferences and short visits; \approx £1,000 annually | 2013 – 2016 |
| Research stay grant, LANCS Initiative, UK; £2,000 | 2014 |
| Co-funding for several conferences and short visits; \approx €500 annually | 2006 – 2012 |
| Research stay grant, INRIA, France; €3,000 | 2010 |
| Dept. of Statistics Logo Design Contest winner (with Dae-Jin Lee), Univ. Carlos III de Madrid, Spain | 2008 |
| Student grant, MITACS, Canada; 1,000 CAD | 2008 |
| Research stay grant, Ministry of Education and Science, Spain; €8,130 | 2007 |
| Research Staff Development (FPI) Fellowship, Ministry of Education and Science, Spain; \approx €56,000 | 2005 |
| Student grant, CRM, Canada; 1000 CAD | 2004 |
| Teaching Assistant Fellowship, Universidad Carlos III de Madrid, Spain; \approx €12,000 | 2003, 2004 |
| The Honourable Mention of Dean, P. J. Šafárik University in Košice, Slovakia | 2003 |
| Socrates/Erasmus grant, European Commission, EU; \approx €2,000 | 2002 |
| The Prize of Rector on occasion of the Students' Day, P. J. Šafárik University in Košice, Slovakia | 2001 |

INDUSTRIAL PROJECTS

- “Modelling and Simulation of Clinical Trial Designs” 2018
 • UK, Phastar — Lancaster University (with Trial Design Modelling Centre; AstraZeneca); £27,470; **PI: P. Jacko**
- “Enhancement to Blend Optimization Software” 2015
 • UK, Twinning & Co Ltd — Lancaster University; £6,302; participant
- “Minimization of Train Energy Consumption by Closed-Loop Techniques” 2012
 • Spain, INGETEAM TRACTION — BCAM; €25,000; **PI: P. Jacko**
- “Minimization of Energy Consumption in Railway Networks” 2011
 • Spain, INGETEAM TRACTION — BCAM; PI: U. Ayesta; participant

NATIONAL PROJECTS

- “LANCS Initiative” 2013 – 14
 • UK, EPSRC; Local budget: £1,200,631; Director: K. D. Glazebrook; participant
- “Virtual Machines for the Traffic Analysis in High-Capacity Networks” 2012 – 13
 • Spain, Basque Government; S-PE12UN120; Local budget: €50,000; **Local PI: P. Jacko**
- “Efficient Control Methods and Algorithms for Dynamic Resource-Sharing Systems” 2011 – 13
 • Spain, Ministry of Science and Innovation; MTM2010-17405; €34,200; **PI: P. Jacko** (2012 – 13), U. Ayesta (2011)
- “Resource Sharing in the Next Generation Networks” 2010 – 12
 • Spain, Basque Government; PI2010-2; €4,200; PI: J. Anselmi (2012), U. Ayesta (2010 – 11); participant
- “Models for Support in Decision Making in Presence of Uncertainty” 2009 – 09
 • Spain, Community of Madrid-UC3M; CCG08-UC3m/ESP-4162; €19,500; PI: F. J. Nogales; participant
- “Large-Scale Systems Optimization via Mathematical Programming” 2008 – 08
 • Spain, Community of Madrid-UC3M; CCG07-UC3M/ESP-3389; €17,760; PI: J. Niño-Mora; participant
- “Optimization Methods and Models for Dynamic and Stochastic Systems” 2007 – 10
 • Spain, Ministry of Education and Science; MTM2007-63140; €74,052; PI: J. Niño-Mora; participant
- “Models for Dynamic, Stochastic and Combinatorial Optimization of Technological, Logistic and Financial Systems” 2007 – 08
 • Spain, Community of Madrid-UC3M; CCG06-UC3M/ESP-0767; €4,000; PI: J. Niño-Mora; participant
- “Models for Dynamic, Stochastic and Combinatorial Optimization of Production, Logistic and Financial Systems” 2006 – 06
 • Spain, Community of Madrid-UC3M; UC3M-MTM-05-075; €2,500; PI: J. Niño-Mora; participant
- “Methods, Formulations and Algorithms for Solving of Dynamic and Stochastic Optimization Models by Mathematical Programming” 2004 – 07
 • Spain, Ministry of Education and Science; MTM2004-02334; €54,280; PI: J. Niño-Mora; participant

INTERNATIONAL PROJECTS

- “EURO-FGI: Design and Engineering of the Future Generation Internet — Towards Convergent Multi-Service Networks” 2006 – 08
 • European Commission; FP6-IST-028022; Local budget: €9,743; Local PI: J. Niño-Mora; participant
- “EURO-NGI: Design and Engineering of the Next Generation Internet Towards Convergent Multi-Service Networks” 2003 – 06
 • European Commission; FP6-IST-507613; Local budget: €43,160; Local PI: J. Niño-Mora; participant

:: TEACHING

ACADEMIC DEVELOPMENT

- Fellow of the Higher Education Academy 2015
- Lancaster Postgraduate Certificate in Academic Practice (PGCAP) module 1 2014

RESEARCH SUPERVISION AND MENTORING

Martin Erausquin (postdoctoral supervisor), BCAM, Spain (ORL 2016)	2013 – 2014
Sofia S. Villar (postdoctoral supervisor), BCAM, Spain	2012
Amin Yarahmadi (PhD supervisor 1/2), Lancaster University, UK	2018 –
Livia Stark (MRes+PhD supervisor 1/2), STOR-i, Lancaster University, UK	2018 –
Ugur Satiç (PhD supervisor 1/2), Lancaster University, UK	2017 –
Stephen Ford (MRes+PhD supervisor 1/2), STOR-i, Lancaster University, UK	2017 –
Francis Garuba (PhD supervisor 1/2), Lancaster University, UK	2016 –
Faye Williamson (MRes+PhD supervisor 1/2), STOR-i, Lancaster University, UK (CSDA 2017)	2014 –
Luis Zabala (PhD internship supervisor 1/2), UPV/EHU, Spain	2013
Ianire Taboada (PhD internship supervisor), UPV/EHU, Spain (ITC 2014; Performance 2014)	2013
Sofia S. Villar (PhD thesis collaborator), Universidad Carlos III de Madrid, Spain (ITC 2012)	2012
Darina Gracsová (PhD internship supervisor 1/2), Comenius University, Slovakia (OPRE 2014)	2011
Martin Erausquin (PhD internship supervisor 1/2), UPV/EHU, Spain (Performance 2010 & Allerton 2011)	2010
Jake Clarkson (MRes supervisor 1/3), STOR-i, Lancaster University, UK	2016
Joshua Bradley-Bevan (MSc internship supervisor), University of Manchester, UK	2016
Daniel Fernandez Alonso (MSc internship supervisor), UPV/EHU, Spain	2013
Nathaniel Richmond (MSc internship supervisor), University of Iowa, US (PMAPS 2014)	2013
Vladimír Novák (MSc thesis collaborator), Comenius University, Slovakia (JoS 2017)	2013
Fabio Cecchi (MSc internship supervisor), University of Pisa, Italy (Sigmetrics 2013, PEVA 2016)	2012
Maialen Larrañaga (MSc thesis supervisor 1/3), UPV/EHU, Spain (industrial report, ArXiv report)	2012
Ane Izagirre (MSc thesis supervisor 1/3), UPV/EHU, Spain	2012
Josu Doncel (MSc thesis supervisor 1/2), UPV/EHU, Spain (MAMA 2012, Computer Networks 2013)	2011
Chaitanya Agrawal (BSc internship supervisor), Indraprastha Institute of Information Technology, India	2018
Eva Jaščurová (BSc internship supervisor), P. J. Šafárik University in Košice, Slovakia	2015
Vladimír Novák (BSc thesis supervisor 1/2), Comenius University in Bratislava, Slovakia (Infocom 2011)	2010

LECTURING

STOR-i DTC, Lancaster University, UK	2014 –
<ul style="list-style-type: none"> • Autumn 2018/2019: <i>Probability and Stochastic Processes</i>, 20%, postgraduate • Autumn 2018/2019: <i>Introduction to Matlab</i>, postgraduate • Autumn 2017/2018: <i>Probability and Stochastic Processes</i>, 20%, postgraduate • Autumn 2017/2018: <i>Introduction to Matlab</i>, postgraduate • Autumn 2016/2017: <i>Probability and Stochastic Processes</i>, 20%, postgraduate • Autumn 2016/2017: <i>Introduction to Matlab</i>, postgraduate • Autumn 2015/2016: <i>Probability and Stochastic Processes</i>, 20%, postgraduate • Autumn-Spring 2015/2016: <i>Training for Research and Industry</i>, 25%, postgraduate • Autumn 2015/2016: <i>Introduction to Matlab</i>, postgraduate • Autumn 2014/2015: <i>Probability and Stochastic Processes</i>, 20%, postgraduate (newly designed module part) • Autumn-Spring 2014/2015: <i>Training for Research and Industry</i>, 25%, postgraduate 	
Department of Management Science, Lancaster University Management School, UK	2013 –
<ul style="list-style-type: none"> • Autumn 2018/2019: <i>Statistics and Computing for Management</i>, 50%, undergraduate • Autumn 2017/2018: <i>Introduction to Business Analytics</i>, 50%, undergraduate • Autumn 2017/2018: <i>Statistics and Computing for Management</i>, 50%, undergraduate • Autumn 2016/2017: <i>Introduction to Business Analytics</i>, 50%, undergraduate 	

- Autumn 2016/2017: *Statistics and Computing for Management*, 50%, undergraduate
- Spring 2015/2016: *Introduction to Business Analytics*, 50%, undergraduate
- Autumn-Spring 2015/2016: *Study Abroad Mathematics*, 50%, undergraduate
- Autumn 2015/2016: *Introduction to Business Analytics*, 50%, undergraduate
- Autumn 2015/2016: *Statistics and Computing for Management*, 50%, undergraduate
- Spring 2014/2015: *Introduction to Business Analytics*, 50%, undergraduate
- Autumn-Spring 2014/2015: *Study Abroad Mathematics*, 50%, undergraduate
- Autumn 2014/2015: *Introduction to Business Analytics*, 50%, undergraduate
- Spring 2013/2014: *Introduction to Business Analytics*, 50%, undergraduate
- Spring 2013/2014: *Study Abroad Mathematics*, 50%, undergraduate (newly designed module)

TEACHING ASSISTANTSHIPS

Department of Statistics, Universidad Carlos III de Madrid, Spain	2005 – 2009
<ul style="list-style-type: none"> • Winter 2006/2007: <i>Operations Research</i>, in English, postgraduate • Autumn 2006/2007: <i>Operations Research</i>, in Spanish, undergraduate • Winter 2005/2006: <i>Operations Research</i>, in English, postgraduate • Autumn 2005/2006: <i>Operations Research</i>, in Spanish, two groups, undergraduate 	
Department of Business Administration, Universidad Carlos III de Madrid, Spain	2003 – 2005
<ul style="list-style-type: none"> • Autumn 2004/2005: <i>Financial Economics</i>, in Spanish, two groups, undergraduate • Autumn 2004/2005: <i>Accounting Analysis</i>, in English, undergraduate • Spring 2003/2004: <i>Financial Management</i>, in Spanish, undergraduate • Autumn 2003/2004: <i>Financial Economics</i>, in English, undergraduate 	

VOLUNTARISM AND EXTRACURRICULAR TEACHING

Nadácia Ingenium (The “Ingenium” Foundation), Slovakia	2001 – 2007
<ul style="list-style-type: none"> • founding <i>executive board member</i> (2001 – 2007) • co-organizer of meetings and workshops for math teachers and volunteers 	
Združenie STROM (a non-profit organisation), Slovakia	1995 – 2004
<ul style="list-style-type: none"> • <i>president and member of executive board</i> (2000 – 2003) • co-organizer of math contests, lectures and summer/winter schools for math talents 	

:: RECOGNITION AND SERVICE

CONFERENCE COMMITTEE MEMBERSHIP

European Conference on Queueing Theory (ECQT); TPC member	2016, !2018, 2020
IMA and OR Society Conference on Mathematics of Operational Research; Session Organiser	2017, !2019
Meeting of the EURO WG on Stochastic Modelling (StochMod); Co-Chair	2018
Workshop on Multi-Armed Bandits and Learning Algorithms; PC member	2018
International Conference on Machine Learning, Optimization and Big Data (MOD); TPC member	2017
STOR-i Workshop on Multi-armed Bandits; Co-organizer	2016
International Workshop on Networking Games and Management; TPC member	2013
IEEE Vehicular Technology Conference (VTC2013 Spring, VTC2013 Fall); TPC member	2013
International Teletraffic Congress (ITC24); TPC member	2012
BCAM Workshop on Bandit Models and Applications; Co-organizer	2011

REVIEWING

INFORMS Management Science
 INFORMS Operations Research
 INFORMS Mathematics of Operations Research
 INFORMS Journal on Computing
 European Journal of Operational Research

4OR — A Quarterly Journal of Operations Research
 Annals of Operations Research
 Mathematical Methods of Operations Research
 OMEGA — The International Journal of Management Science
 Naval Research Logistics
 IEEE Transactions on Automatic Control
 Electronic Journal of Statistics
 Biometrics
 Annals of Applied Probability
 Queueing Systems: Theory and Applications
 Systems Science
 Performance Evaluation
 IEEE/ACM Transactions on Networking
 International Journal of Mobile Network Design and Innovation

Conference on Neural Information Processing Systems (NIPS/NeurIPS)	2016, 2017, 2018, 2019
International Conference on Machine Learning (ICML)	2018, 2020
IEEE Global Communications Conference (GLOBECOM)	2017
International Conference on Network Games, Control and Optimization (NetGCoOp)	2011
International Conference on New Technologies, Mobility and Security	2008

ACADEMIC SERVICE AND OTHER EXPERT COMMITTEE MEMBERSHIP

INFORMS Applied Probability Society Best Student Paper Competition Committee; member	2020
UK EPSRC Mathematical Sciences Prioritisation Panel; expert in Operational Research Lancaster University, UK	2019
<ul style="list-style-type: none"> • Internal examiner on viva voce PhD thesis examination (2016, 2016, 2019) • Departmental seminars coordinator (2015 – 2019) 	
Basque Center for Applied Mathematics, Spain	
<ul style="list-style-type: none"> • Scientific coordinator of BCAM Internship program (2011 – 2013) • Member of scientific evaluation panel of the call for researchers and PhD students (2010, 2012, 2013) • Coordinator of seminars and discussion group meetings 	

MEMBERSHIP IN ORGANISATIONS

EURO Working Group on Stochastic Modelling (StochMod)	2012 –
<ul style="list-style-type: none"> • Board member (2018 –) 	
International Biometric Society, British and Irish Region	2016 –
Statisticians in the Pharmaceutical Industry (PSI), UK	2016 –

:: SKILLS AND ABILITIES

LANGUAGES

English, Spanish — fluent (immersion in 2003)
 German, Russian — basic understanding
 Slovak, Czech — native

COMPUTERS

Programming — strong general skills developed since 1995
 Computing software — Julia, Matlab, R, Maple, Xpress-MP
 Development software — Pascal, Delphi, HTML/CSS, PHP

Productivity software — L^AT_EX, T_EX, Microsoft Word/Excel/PowerPoint/Visio, Google Docs/Sheets

:: **REFERENCES**

References can be provided upon request