

Dr. Martín López-García

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CV. August 2017

Current Position

2016–2019 **MRC Fellow & Lecturer**, Department of Applied Mathematics, University of Leeds.

Employment History

2013–2016 **Postdoctoral Research Assistant**, Department of Applied Mathematics, University of Leeds.

2009–2013 **PhD Fellowship**, Spanish Ministry of Economy and Competitiveness.

2008–2009 **“Initiation to research activities” Fellowship**, Spanish Ministry of Education.

Education

2009–2013 **PhD in Mathematics**, Complutense University of Madrid, Spain. Qualification: Excellent *cum Laude*.

2004–2009 **BSc in Mathematics**, University of Alicante, Spain. Qualification: 9.06/10 with honours.

Teaching (~300 hours)

2016–2017 **Tutor**, MATH1050 Calculus and Mathematical Analysis (10h), BSc Mathematics, University of Leeds, UK.

2016–2017 **Module Leader**, MATH5315M Applied Statistics and Probability (40h), MSc in Financial Mathematics, University of Leeds, UK.

09/2016 **Module Leader**, Stochastic Processes (45h), MSc Statistics, University of Maputo, Mozambique.

09/2014 **Module Leader**, Stochastic Processes (45h), MSc Statistics, University of Maputo, Mozambique.

08/2013 **Module Leader**, Stochastic Processes (45h), MSc Statistics, University of El Salvador, El Salvador.

2011–2013 **Teaching Assistant**, Probability Theory (112.5 hours), BSc in Mathematics (2nd year), Complutense University of Madrid, Spain.

Postgraduate Supervision

2013– **Co-supervisor**, PhD student Maria Nowicka, Department of Applied Mathematics, School of Mathematics, University of Leeds, United Kingdom.

2013– **Co-supervisor**, PhD student Luís de-la-Higuera, Department of Applied Mathematics, School of Mathematics, University of Leeds, United Kingdom.

Research Funding

2016–2019 **Mathematical modelling of the emergence and spread of antibiotic resistant bacteria in healthcare settings: an stochastic approach**, MR/N014855/1, Medical Research Council, United Kingdom. PI: Dr. López-García.

2015–2017 **Stochastic models and statistical aspects in epidemics**, MTM2014-58091, Ministry of Economy and Competitiveness, Spain. Researcher. PI: Dr. Gómez-Corral.

- 2013–2016 **Vascular receptor-ligand programming: stochastic modelling of cellular fate**, RPG-2012-772, The Leverhulme Trust, UK. Postdoctoral Research Assistant. PI: Prof. Lythe, Prof. Molina-París, Dr. Ponnambalam.
- 2012–2014 **Stochastic modeling of epidemics and populations**, MTM2011-23864, Ministry of Economy and Competitiveness, Spain. Researcher. PI: Prof. Artalejo, Dr. Gómez-Corral.
- 2009–2011 **Stochastic models in biology and queueing theory: contributions of matrix-analytic methods and other algorithmic techniques**, MTM2008-01121, Ministry of Science and Innovation, Spain. PhD Fellow. PI: Prof. Artalejo.

Research Visits

- 05/2017 **Research visit - 2 weeks**, Institute of Mathematical Sciences, Madrid, Spain.
- 04/2017 **Research visit - 3 weeks**, Indian Institute of Science, Bangalore, India.
- 02/2017 **Research visit - 2 weeks**, Medecins Sans Frontieres, Paris, France.
- 07-08/2016 **Research visit - 1 month**, Los Alamos National Laboratory, Los Alamos, USA.
- 04-05/2016 **Research visit - 1 month**, Indian Institute of Science, Bangalore, India.
- 01/2016 **Research visit - 2 weeks**, Isaac Newton Institute of Mathematical Sciences, Cambridge, UK.
- 11-12/2015 **Research visit - 3 weeks**, Institute of Mathematical Sciences, Chennai, India.
- 03-04/2015 **Research visit - 1 month**, Institute of Mathematical Sciences, Chennai, India.
- 07-08/2014 **Summer school - 3 weeks**, Qbio 2014 Summer School, Albuquerque, USA.
- 11-12/2011 **Research visit - 1 month**, Department of Mathematics, University of Athens, Greece.

Referee Activities

- 2017- **Journal referee**, *Scientific Reports*.
- 2017- **Journal referee**, *Mathematical Problems in Engineering*.
- 2016- **Journal referee**, *Mathematical Biosciences*.
- 2016- **Journal referee**, *Discrete and Continuous Dynamical System Series-B*.
- 2016- **Journal referee**, *International Journal of Biomathematics*.
- 2016- **Journal referee**, *Stochastic Environmental Research and Risk Assessment*.
- 2016- **Journal referee**, *Physica A: Statistical Mechanics and its Applications*.
- 2015- **Journal referee**, *PLoS ONE*.
- 2015- **Journal referee**, *Applied Mathematical Modelling*.
- 2015- **Journal referee**, *HSOA Journal of Infectious & Non Infectious Diseases*.
- 2013- **Journal referee**, *Sankhya B - The Indian Journal of Statistics*.
- 2013- **Journal referee**, *The International Journal of Computational Intelligence Systems*.
- 2013 **Grant referee**, “NILS Science and Sustainability” European program.

Administrative Activities

- 04/2017 **Conference Organizer: *Probability in the North-East***, University of Leeds.
- 2016- **Member of the Athena Swan/Equality & Inclusion Working Group**, School of Mathematics, University of Leeds.
- 11/2015 **Conference Organizer: *Probability in the North-East***, University of Leeds.

Publications

- 2017 **López-García M**, Nowicka M, Fearnley GW, Ponnambalam S, Lythe G, Molina-París C, In: Qbio Methods (editors: Munsky B, Hlavacek W, Tsimring L), *in press*.
- 2017 de-la-Higuera L, **López-García M**, Lythe G, Molina-París C, In: Modeling Cellular Systems (editors: Pahle J, Matthäus F, Graw F), *in press*.

- 2017 Gómez-Corral A, **López-García M**, International Journal of Biomathematics 10: 1750024 (13 pages).
- 2017 Artalejo JR, Gómez-Corral A, **López-García M**, Molina-París C, Journal of Mathematical Biology 74: 673-708.
- 2016 **López-García M**, Mathematical Biosciences 271: 42-61.
- 2015 Economou A, Gómez-Corral A, **López-García M**, Physica A: Statistical Mechanics and its Applications 421: 78-97.
- 2015 Gómez-Corral A, **López-García M**, Applied Mathematics and Computation 264: 223-245.
- 2014 Gómez-Corral A, **López-García M**, Journal of Theoretical Biology 354: 1-11.
- 2014 Gómez-Corral A, **López-García M**, Applied Mathematics and Computation 235: 124-136.
- 2013 Gómez-Corral A, **López-García M**, International Journal of Biomathematics 6: 1350002 (28 pages). DOI: 10.1142/S1793524513500022.
- 2013 Gómez-Corral A, **López-García M**, Applied Mathematical Modeling 37: 5452-5463.
- 2012 Gómez-Corral A, **López-García M**, Journal of Mathematical Biology 64: 255-289.
- 2012 Gómez-Corral A, **López-García M**, Computers & Mathematics with Applications 64: 236-259.

International Conferences & Meetings

- 2017 Department of Statistics and Operations Research, Complutense University of Madrid, Spain, *Invited seminar*.
- 2017 Institute of Mathematical Sciences, Madrid, Spain, *Invited seminar*.
- 2017 “Meeting on stochastic epidemic models with structured populations: development, analysis and inference”, Nottingham, UK, *Contributed talk*.
- 2017 “Contagion on Networks” satellite of the NetSci 2017 meeting, Indianapolis, USA, *Lightening talk*.
- 2017 “Biology and Medicine Through Mathematics (BAMM!)” meeting, Richmond, USA, *Contributed talk*.
- 2017 National Centre for Biological Sciences, Bangalore, India, *Invited seminar*.
- 2017 “Mathematical Models of Infection, Inflammation and Immunity”, Bangalore, India, *Invited talk*.
- 2016 10th European Conference on Mathematical and Theoretical Biology, Nottingham, UK, *Contributed talk*.
- 2016 BSI Mathematical Modelling Affinity Group meeting, Microsoft Research, Cambridge, UK, *Invited talk*.
- 2016 Statistics and Probability Seminar, University of Nottingham, UK, *Invited seminar*.
- 2016 “Applied Computing in Biology, Medicine and Health” seminar series, School of Computing at University of Leeds, UK, *Invited seminar*.
- 2015 “3rd Workshop and Conference on Modeling Infectious Disease”, Chennai, India, *Invited talk and seminar*.
- 2015 INFORMS Applied Probability, Istanbul, Turkey, *Invited talk*.
- 2015 Department of Mathematics, Anna University, Chennai, India, *Invited talk*.
- 2015 Institute of Mathematical Sciences, Chennai, India, *Invited talk*.
- 2015 Meeting on Mathematics & Biology, IISc, Bangalore, India, *Invited talk*.
- 2015 A Two-day Meeting on Mathematical Biology, Madrid, Spain, *Invited talk*.
- 2015 Mathematics for Health and Disease, Edinburgh, United Kingdom, *Contributed talk*.

- 2015 SET for BRITAIN, House of Commons, London, United Kingdom, *Poster*.
- 2014 North-East Probability Day, Durham, United Kingdom, *Contributed talk*.
- 2014 ECMTB 9th Conference, Gothenburg, Sweden, *Contributed talk*.
- 2014 Qbio 8th Summer School, Albuquerque, United States, *Poster & Contributed talk*.
- 2014 Qbio Conference, Santa Fe, United States, *Poster*.
- 2013 Workshop SSCAI, Edinburgh, United Kingdom, *Contributed talk*.
- 2013 SMB Annual Conference & Meeting, Tempe, United States, *Contributed talk*.
- 2013 Young Researchers Conference of the RSMA, Seville, Spain, *Invited talk*.
- 2012 YEQT-VI Conference, Eindhoven, The Netherlands, *Invited talk*.
- 2012 INFORMS International Conference, Beijing, China, *Invited talk*.
- 2012 DSABNS Third Workshop, Lisbon, Portugal, *Contributed talk*.
- 2011 BIOMATH International Conference, Sofia, Bulgaria, *Contributed talk*.

Awards

- 09/2017 **Vicent Caselles Spanish National Award**, BBVA Foundation & Spanish Royal Mathematical Society.