Dr. Matthew R. Foreman: Curriculum Vitae

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Research Experience

Mar 2023 – present	**Assistant Professor**, School of Electrical and Electronic Engineering (EEE) and Institute for Digital Molecular Analytics and Science, Nanyang Technological University, Singapore
Oct 2016 – Mar 2023	**Royal Society University Research Fellow**, Photonics, Imperial College London, UK *"Mesoscopic plasmon speckle: fundamentals and applications"*
Jan 2015 – Sep 2016	**Max Planck Research Fellow**, Max Planck Institute for the Science of Light, Germany *"Anisotropic whispering-gallery mode resonators"*
Sep 2013 – Jan 2015	**Alexander von Humboldt Fellow**, Max Planck Institute for the Science of Light, Germany *"Hybrid photonic-plasmonic micro-resonators for single molecule sensing"*
Oct 2012 – Sep 2013	**Max Planck Research Fellow**, Max Planck Institute for the Science of Light, Germany *"Theory of plasmon enhanced whispering-gallery mode biosensing"*
Dec 2011 – Sep 2012	**KTS Research Fellow**, National Physical Laboratory, UK *"Characterisation and calibration of 3D optical tomographic systems for surface metrology"*
Nov 2010 – Nov 2011	**Research Associate**, Photonics, Imperial College London, UK *"SUper-Resolution Photonics for Advanced Storage Systems (SURPASS)"*
Jul 2010 – Oct 2010	**Visiting Lecturer** – Institute of Biophotonics, National Yang-Ming University, Taiwan
Jan 2010 – Oct 2010	**EPSRC Research Fellow**, Photonics, Imperial College London, UK *"Single molecule studies via polarisation microscopy"*

Teaching / Supervision Experience

Lecturing

2017 – 2019	**Partial differential equations** (class of ∼ 100 2nd year undergraduates – 6 hours) Department of Materials – Imperial College London, UK
2017 – 2019	**Maxwell's Equations** (class of ∼ 100 2nd year undergraduates – 6 hours) Department of Materials – Imperial College London, UK
2013	**Whispering Gallery Mode Resonators** (class of ∼ 25 PhD students – 8 hours) Friedrich-Alexander Universität Erlangen-Nürnberg - SAOT Winter Academy, Austria
2010	**Polarisation imaging** (class of ∼ 20 Masters and PhD students – 18 hours) Institute of Biophotonics, National Yang-Ming University, Taiwan
2010	**Fundamentals of Matlab** (class of ∼ 30 Masters and PhD students – 20 hours) Institute of Biophotonics, National Yang-Ming University, Taiwan

Supervision

2017 – present	**PhD supervisor** – graduated: 2 students as lead supervisor current: 1 + (1) students as lead (co-) supervisor
2007 – present	**MSc/MRes project supervisor** – 12 students
2009 – present	**BSc project supervisor** – 4 students
2009 – present	**UG intern project supervisor** – 15 students
2013	**PhD intern supervisor** – 2 students

Assessments

Jan 2022	**PhD examiner** – 1 student – Department of Medical Physics and Biomedical Engineering, University College London, UK
2021	**PhD LSA examiner** – 1 student – Department of Physics, Imperial College London, UK
2016 – present	**MSc Optics/Physics project assessor** – 17 students – Department of Physics, Imperial College London, UK
2011 – 2017	**Undergraduate project assessor** – 33 students – Department of Physics, Imperial College London, UK

Other

2017 – 2019	**Undergraduate tutorials** – Department of Materials, Imperial College London, UK
2010 – 2011	**Undergraduate tutorials** – Department of Physics, Imperial College London, UK
2008 – 2010	**Laboratory demonstrator** – MSc Optics, Imperial College London, UK
2007 – 2008	**Undergraduate classworks** – Department of Physics, Imperial College London, UK

Professional activities

Editorial

2021 – present **Section Editor** – Sensors, Multidisciplinary Digital Publishing Institute (MDPI)
2020 Impact Factor: 3.275

2017 – present **Associate Editor** – Optics Express, Optica Publishing Group
2020 Impact Factor: 3.669

2007 – 2010 **Senior layout- and copy- editor** – Journal of the European Optical Society

Peer review

2017 **Proposal reviewer** – National Natural Science Foundation of China (NSCF) and Israel Science Foundation (ISF)

2011 – 2015 **Proposal reviewer** – Romanian National Council for Scientific Research

2011 **Proposal reviewer** – Georgian Shota Rustaveli National Science Foundation

2007 – present **Scientific reviewer** – including Nature Publishing, American Physical Society, Optical Society of America, American Chemical Society. Full WoS record: https://www.webofscience.com/wos/author/record/1203541

Committee

2017 – present **Chair** – Physics Fellows' Forum, Imperial College London, UK

2017 **Committee Member** – Juno subcommittee on Career Development and Advice, Imperial College London, UK

2017 **Round table** – Royal Society, Berlin-Brandenburg Akademie der Wissenschaften and Leopoldina

2014 **Workshop organisation** – Developed online registration system, administered registration and facilitated production of conference proceedings for 560. WE Heraeus Workshop, Bad Honnef, Germany

Outreach

2017 **Outreach Volunteer** – Imperial Festival, Imperial College London, UK

2015 **Outreach Volunteer** – Siegman International School on Lasers, Max Planck Institute for the Science of Light, Germany

2013 **Outreach Volunteer** – Lange Nacht der Wissenschaften (Long Night of Science), Max Planck Institute for the Science of Light, Germany

Other

2018 – present **Mentor** – Institute of Physics Membership Accreditation and Recognition Scheme, Imperial College London, UK

2018 **Scientific Consultant** – Lightvert Ltd., UK

2007 – 2010 **Administrative assistant** – Journal of the European Optical Society: Rapid Publications

Awards and honours

2019 **Fellow of UK Higher Education Authority**

2017 **Associate Fellow of UK Higher Education Authority**

2016 – 2021 **Royal Society University Research Fellowship** – The Royal Society, UK

2015 **Outstanding Reviewer** – Optics Communications

2013 – 2015 **Humboldt Research Fellowship** – Alexander von Humboldt Foundation, Germany

2011 **Excellence in Teaching Award** – Faculty of Natural Sciences, Imperial College London, UK

2010 **Springer Outstanding PhD Research Prize** – Springer-Verlag

2010 **EPSRC PhD Plus Fellowship** – Engineering and Physical Sciences Research Council, UK

2010 **Young Researcher Invitation** – Lindau Nobel Laureate Meeting

2007 **Springer Presentation Award** – EOS Advanced Imaging Topical Meeting

2003 – 2006 **Peter Fisher Prize, Finals Prize and Millard Scholarship in Physics** – Oxford University, UK

Education

Oct 2006 – Jan 2010 **PhD Physics, Imperial College London, UK** (Supervisor: Prof. Peter Török)
"Informational limits in optical polarimetry and vectorial imaging"

Sep 2002 – Jul 2006 **MPhys Physics, Trinity College, University of Oxford, UK** 1st class

Citation statistics (source: Google Scholar)

A full publication list can be found below.

Total papers (invited): 50 (5)
Total books/chapters: 2
Conference presentations (invited/keynote): 36 (9/1)

Total citations (since 2018): 2681 (1707)
h-index (since 2018): 23 (17)
i10-index (since 2018): 36 (25)

Dr. Matthew R. Foreman: Publication List

All publications are available from www.mrforeman.com/publications.php.

Peer-reviewed publications (italics denotes invited article)

- N. Byrnes and **M. R. Foreman**, "Polarised light scattering in disordered media: a random matrix model" Waves Rand. Comp. Media *in press* (2022).
- N. Byrnes and **M. R. Foreman**, "Polarisation statistics of vector scattering matrices from the circular orthogonal ensemble" Opt. Commun. **503**, 127462 (2022).
- H. Lee, J. Berk, A. Webster, D. Kim and **M. R. Foreman**, "Label-free detection of single nanoparticles with disordered nanoisland surface plasmon sensor" Nanotechnology, **33**, 165502 (2022).
- J. Berk and **M. R. Foreman**, "Role of Multiple Scattering in Single Particle Perturbations in Absorbing Random Media" Phys. Rev. Research **3**, 033111 (2021).
- J. Berk and **M. R. Foreman**, "Theory of Multiple Scattering Enhanced Single Particle Plasmonic Sensing" ACS Photon. **8**, 2227–2233 (2021).
- F. Azeem, L. S. Trainor, P. A. Devane, D. S. Norman, A. Rueda, N. J. Lambert, M. Kumari, **M. R. Foreman**, H. G. L. Schwefel, "Dielectric perturbations: anomalous resonance frequency shifts in optical resonators" Opt. Lett. **46**, 2477–2480 (2021).
- N. Byrnes and **M. R. Foreman**, "Symmetry constraints for vector scattering and transfer matrices containing evanescent components: energy conservation, reciprocity and time reversal" Phys. Rev. Research **3**, 013129 (2021).
- J. Berk, C. Paterson and **M. R. Foreman**, "Tracking Single Particles using Surface Plasmon Leakage Radiation Speckle" IEEE J. Lightwave Technol. **39**, 3950–3960 (2021).
- K. L. C. Seow, P. Török, **M. R. Foreman**, "Single Pixel Polarimetric Imaging through Scattering Media" Opt. Lett. **45**, 5740–5743 (2020).
- N. Byrnes and **M. R. Foreman**, "Universal bounds for imaging in scattering media" New J. Phys. **22**, 083023 (2020).
- Y. Xiang, **M. R. Foreman** and P. Török, "SNR Enhancement in Brillouin Microspectroscopy using Spectrum Reconstruction" Biomed. Opt. Express **11**, 1020–1031 (2020).
- **M. R. Foreman**, "Field correlations in surface plasmon speckle" Sci. Reps. **9**, 8359 (2019).
- P. Török and **M. R. Foreman**, "Precision and informational limits in inelastic optical spectroscopy" Sci. Reps. **9**, 6140 (2019).
- **M. R. Foreman** and F. Goudail, "On the equivalence of optimisation metrics in Stokes polarimetry" Opt. Eng. **58**, 082410 (2019).
- *N. T. Urban, **M. R. Foreman**, S. W. Hell and Y. Sivan, "Nanoparticle-assisted STED nanoscopy with gold nano-spheres" ACS Photon. **5**, 2574–2583 (2018).*
- **M. R. Foreman**, D. Keng, E. Treasurer, J. Lopez and S. Arnold, "Whispering gallery mode single nano-particle detection and sizing: the validity of the dipole approximation" Opt. Lett. **42**, 963–966 (2017).
- F. Sedlmeir, **M. R. Foreman**, U. Vogl, R. Zeltner, G. Schunk, D. V. Strekalov, C. Marquardt, G. Leuchs and H. G. L. Schwefel "Polarization-selective out-coupling of whispering gallery modes" Phys. Rev. Applied **7**, 024029 (2017).
- **M. R. Foreman**, F. Sedlmeir, H. G. L. Schwefel and G. Leuchs, "Dielectric tuning and coupling of whispering gallery modes using an anisotropic prism" J. Opt. Soc. Am. B **33**, 2177–2195 (2016).
- W. T. Chen, P. Török, **M. R. Foreman**, C. Y. Liao, W.-Y. Tsai, P. R. Wu and D. P. Tsai, "Integrated plasmonic metasurfaces for spectropolarimetry" Nanotechnology **27**, 224002 (2016).
- **M. R. Foreman** A. Favaro and A. Aiello "Optimal frames for polarization state reconstruction" Phys. Rev. Lett. **115**, 263901 (2015). Featured as cover article for Phys. Rev. Lett.
- E. Kim, **M. R. Foreman**, M. D. Baaske and F. Vollmer "Thermal characterisation of (bio)polymers with a temperature-stabilized whispering gallery mode microsensor" Appl. Phys. Lett. **106**, 161101 (2015).

Dr. Matthew R. Foreman: Publication List ctd.

Peer-reviewed publications ctd.

- **M. R. Foreman** and F. Vollmer "Tracking anomalous diffusion kinetics in polymer microspheres" Phys. Rev. Lett. **114**, 118001 (2015). Featured as "Editor's Suggestion" in Phys. Rev. Lett.
- ***M. R. Foreman**, J. D. Swaim and F. Vollmer "Whispering gallery mode sensors" Adv. Opt. Photon. **7**, 168–240 (2015).*
- M. D. Baaske, **M. R. Foreman** and F. Vollmer "Single molecule nucleic acid interactions monitored on a label-free microcavity biosensor platform" Nat. Nanotech. **9**, 933–939 (2014).
- Y. Sonnefraud, H. G. Sinclair, Y. Sivan, **M. R. Foreman**, C. W. Dunsby, M. A. A. Neil, P. M. French and S. A. Maier "Experimental proof of concept of nanoparticle assisted STED" Nano. Lett. **14**, 4449–4453 (2014).
- ***M. R. Foreman**, S. Avino, R. Zullo, H.-P. Loock, F. Vollmer and G. Gagliardi "Enhanced nanoparticle detection with liquid droplet resonators" Eur. Phys. J. Spec. Top. **223**, 1971–1988 (2014).*
- C. Macías-Romero, **M. R. Foreman**, P. R. T. Munro and P. Török "Confocal polarization imaging in high numerical aperture space" Opt. Lett. **39**, 2322–2325 (2014). Featured in V. J. Biomed. Opt.
- *N. Mazumder, C.-W. Hu, J. Qiu, **M. R. Foreman**, C. Macías-Romero, P. Török, and F.-J. Kao "Revealing molecular structure and orientation with Stokes vector resolved second harmonic generation microscopy" Methods **66**, 237–245 (2014).*
- **M. R. Foreman**, W.-L. Jin and F. Vollmer "Optimizing detection limits in whispering gallery mode biosensing" Opt. Express **22**, 5491–5511 (2014). Featured in V. J. Biomed. Opt.
- G. Antonacci, **M. R. Foreman**, C. Paterson and P. Török "Spectral broadening in Brillioun imaging" Appl. Phys. Lett. **103** 221105 (2013).
- **M. R. Foreman** and F. Vollmer "Level repulsion in hybrid photonic-plasmonic microresonators for enhanced biodetection" Phys. Rev. A **88**, 023831 (2013).
- **M. R. Foreman** and F. Vollmer "Theory of resonance shifts of whispering gallery modes by arbitrary plasmonic nanoparticles" New J. Phys. **15**, 083006 (2013). Featured as a "Highlight of 2013" by New J. Phys.
- **M. R. Foreman**, C. L. Giusca, P. Török and R. K. Leach "Phase-retrieved pupil function and coherent transfer function in confocal microscopy" J. Microsc. **251**, 99–107 (2013).
- **M. R. Foreman**, C. L. Giusca, J. M. Coupland, P. Török and R. Leach, "Determination of the transfer function for optical surface topography measuring instruments - a review" Meas. Sci. Technol. **24**, 052001 (2013).
- N. Mazumder, J. Qiu, **M. R. Foreman**, C. Macías-Romero, P. Török, and F.-J. Kao, "Stokes vector based polarization resolved second harmonic microscopy of starch granules" Biomed. Opt. Express **4**, 538–547 (2013).
- **M. R. Foreman**, Y. Sivan, S. A. Maier and P. Török "Independence of plasmonic near-field enhancements to illumination beam profile " Phys. Rev. B **86**, 155441 (2012).
- N. Mazumder, J. Qiu, **M. R. Foreman**, C. Macías-Romero, C. Hu, H. Tsai, P. Török, and F. Kao, "Polarization-resolved second harmonic generation microscopy with a four-channel Stokes-polarimeter" Opt. Express **20**, 14090–14099 (2012)
- C. Macías-Romero, **M. R. Foreman** and P. Török, "Spatial and temporal variations in vector fields" Opt. Express **19**, 25077–25083 (2011).
- **M. R. Foreman** and P. Török, "Fundamental limits in single molecule orientation measurements" New J. Phys. **13**, 093013 (2011). Image featured in New J. Phys promotional material.
- **M. R. Foreman** and P. Török, "Spin-orbit coupling and conservation of angular momentum flux in non-paraxial imaging of forbidden radiation" New J. Phys. **13**, 063041 (2011).
- C. Macías-Romero, R. Lim, **M. R. Foreman** and P. Török, "Synthesis of partially spatially coherent beams" Opt. Lett. **36**, 1638–1640 (2011).

Dr. Matthew R. Foreman: Publication List ctd.

Peer-reviewed publications ctd.

- ***M. R. Foreman*** *and P. Török, "Computational methods in vectorial imaging" J. Mod. Opt.* **58***, 339–364 (2011).*
- T. Dellwig, **M. R. Foreman** and F.-J. Kao, "Coherent long-distance signal detection using stimulated emission: a feasibility study" Chinese J. Phys. **48**, 873–884 (2010).
- **M. R. Foreman** and P. Török, "Information and resolution in electromagnetic optical systems" Phys. Rev. A **82**, 043835 (2010). Image featured in Phys. Rev. A Kaleidoscope.
- **M. R. Foreman** and P. Török, "Focusing of inhomogeneous partially coherent, partially polarised electromagnetic fields" J. Opt. Soc. Am. A **26**, 2470-2479 (2009).
- **M. R. Foreman**, C. Macías-Romero, and P. Török, "*A priori* information and optimisation in polarimetry" Opt. Express **16**, 15212-15227 (2008).
- **M. R. Foreman**, C. Macías-Romero, and P. Török, "Determination of the three dimensional orientation of single molecules" Opt. Lett. **33**, 1020–1022 (2008). Featured in V. J. Biomed. Opt.
- **M. R. Foreman**, S. S. Sherif, P. R. T. Munro, and P. Török, "Inversion of the Debye-Wolf diffraction integral using an eigenfunction representation of the electric fields in the focal region" Opt. Express **16**, 4901-4917 (2008). Featured in V. J. Biomed. Opt.
- S. S. Sherif, **M. R. Foreman**, and P. Török "Eigenfunction expansion of the electric fields in the focal region of a high numerical aperture focusing system" Opt. Express **16**, 3397–3407 (2008). Featured in V. J. Biomed. Opt.
- **M. R. Foreman**, S. S. Sherif, and P. Török, "Photon statistics in single molecule orientational imaging" Opt. Express **15**, 13597-13606 (2007). Featured in V. J. Biomed. Opt.

Books and book chapters

- S. Arnold, D. Keng, E. Treasurer and **M. R. Foreman**, *How latitude location on a micro-world enables real-time nanoparticle sizing*, in "Nano-Optics: Principles Enabling Basic Research and Applications", B. Di Bartolo, J. Collins, and L. Silvestri, eds., NATO Science for Peace and Security Series B: Physics and Biophysics (Springer Netherlands, 2017).
- **M. R. Foreman**, "Informational limits in optical polarimetry and vectorial imaging" Springer Theses Series (Springer, 2012).

Non peer-reviewed publications

- **M. R. Foreman**, "Single-particle spectroscopy: Whispers of absorption" Nat. Photon. **10**, 755–757 (2016).

Conference/colloquia presentations (*italics*/underline denotes invited/keynote)

- J. Berk, H. Lee, D. Kim and **M. R. Foreman** "Random Plasmon Scattering for Single Particle Sensing" London Plasmonics Forum, London, UK, Jun 2022.
- ***M. R. Foreman*** *"Random scattering of surface plasmons for sensing applications" ICOEO, Xi'an, China, Apr 2022.*
- J. Berk, H. Lee, D. Kim and **M. R. Foreman** "Disordered Surface Plasmon Sensor for Multiple Scattering Enhanced Single Particle Detection" PIERS 2021, Hangzhou, China, Nov 2021.
- **M. R. Foreman** "Statistics of polarised light in disordered media" IOP Stochastic Electromagnetics and Coherence, online, Sep 2021.
- J. Berk, C. Paterson and **M. R. Foreman** "Tracking using Surface Plasmon Leakage Radiation Speckle " OSA Optical Sensors and Sensing Congress, online, Jul 2021.
- ***M. R. Foreman*** *"Quantitative sensing with whispering gallery mode resonators" WOMA 2019, Hong Kong, Dec 2019.*
- **M. R. Foreman** "Field Correlations in Surface Plasmon Speckle" Complex Nanophotonics Science Camp, Windsor, UK, 2019.

Selected conference/colloquia presentations ctd.

- *F. Sedlmeir, H. G. L. Schwefel and **M. R. Foreman** "Differential tuning and coupling of whispering gallery modes" PIERS 2019, Rome, Italy, Jun 2019.*
- **M. R. Foreman** "Field Correlations in Surface Plasmon Speckle" SPP9, Copenhagen, Denmark, May 2019.
- C. Seow, P. Török, **M. R. Foreman** "Single-Pixel Polarimetric Imaging through Scattering Media" Focus on Microscopy 2019, London, UK, Apr 2019.
- **M. R. Foreman**, N. T. Urban, Y. Sivan and S. W. Hell "STED nanoscopy with hybrid nanospheres" Focus on Microscopy 2018, Singapore, Mar 2018.
- Y. Sivan, **M. R. Foreman**, N. T. Urban and S. W. Hell "STED nanoscopy assisted by small metal nanoparticles – new advances" Nanometa 2017, Tirol, Austria, Jan 2017.
- **M. R. Foreman**, A. Favaro and A. Aiello "Multipoles, spherical t-designs and polarization state reconstruction" Particle, Condensed Matter and Quantum Physics: Links Via Maxwell's Equations Topical Meeting, Chicheley Hall, UK, Nov 2015.
- **M. R. Foreman**, A. Favaro and A. Aiello "Optimal Frames for Polarisation State Reconstruction" 600. WE Heraeus Workshop, Bad Honnef, Germany, Oct 2015.
- **M. R. Foreman** and F. Vollmer "Nanoparticle based plasmonic enhancement of high Q optical microresonators" IPC 14, San Diego, USA, Oct 2014.
- **M. R. Foreman**, M. D. Baaske and F. Vollmer "Single molecule detection with a high Q plasmonic-photonic biosensor" Photon 14, London, UK, Sep 2014.
- **M. R. Foreman**, A. Webster, J. Huang and F. Vollmer "Single particle sensing with conically scattered surface plasmons" Photon 14, London, UK, Sep 2014.
- *M. D. Baaske, **M. R. Foreman** and F. Vollmer, "Single molecule detection with high Q plasmonic photonic biosensors" ICTON 2014, Graz, Austria, Jul 2014.*
- **M. R. Foreman**, W.-L. Jin and F. Vollmer, "Optimizing detection limits in whispering gallery mode biosensing" 560. WE Heraeus Workshop, Bad Honnef, Germany, Apr 2014.
- G. Antonacci, **M. R. Foreman**, C. Paterson and P. Török, "Scanning confocal Brillouin microscopy" Focus on Microscopy 2014, Sydney, Australia, Apr 2014.
- *F. Vollmer, **M. R. Foreman**, M. Baaske "Level-repulsion in hybrid photonic plasmonic resonators: enhancing WGM biosensing," SPIE Photonics West, San Francisco, USA, Feb 2014.*
- G. Antonacci, **M. R. Foreman**, C. Paterson and P. Török, "Dark field Brillouin microscopy for biomedical imaging " ECBO 2013, Munich, Germany, May 2014.
- G. Antonacci, **M. R. Foreman**, C. Paterson and P. Török, "Dark-field brillouin microscopy for elasticity imaging" Focus on Microscopy 2013, Maastricht, Netherlands, Apr 2013.
- Y. Sivan, **M. R. Foreman**, S. Maier and P. Török "Independence of plasmonic near-field enhancements to the illumination beam profile" The International Conference on Surface Plasmon Photonics SPP6, Ottawa, Canada May 2013.
- R. K. Leach, J. Coupland, R. Mandal, C. Giusca, **M. R. Foreman** "Calibration of areal surface topography measuring instruments: are we there yet?" 27th Annual Meeting of the American Society for Precision Engineering, San Diego, USA October 2012.
- **M. R. Foreman**, Y. Sivan, and P. Török, "Illumination matching in plasmonic fluorescence imaging" Focus on Microscopy 2012, Singapore, Apr 2012.
- ***M. R. Foreman**, and P. Török, "Fundamental limits in determining the orientation of single molecules" IEEE International Symposium on Biomedical Imaging, Barcelona, Spain May 2012.*
- ***M. R. Foreman**, and P. Török, "Analysis of resolution in data storage and beyond" IQEC/CLEO Pacific Rim, Sydney, Australia Aug 2011.*
- **M. R. Foreman**, and P. Török, "Rigorous electromagnetic imaging of spheres on dielectric surfaces" Focus on Microscopy 2011, Konstanz, Germany Apr 2011.

Selected conference/colloquia presentations ctd.

- **M. R. Foreman**, and P. Török, "Focusing of inhomogeneous partially coherent, partially polarised electromagnetic fields" EOS Advanced Imaging Topical Meeting, Engelberg, Switzerland June 2010.
- ***M. R. Foreman**, and P. Török, "Singular system analysis in electromagnetic focusing problems" TaCoNa Photonics 2009, Bad Honnef, Germany Oct 2009.*
- *C. Macías-Romero, A. S. Van de Nes, **M. R. Foreman**, P. R. T. Munro and P. Török, "Multiplexed optical data storage" nanoCharm Advanced Polarimetric Imaging Techniques Meeting, Paris, France November 2009.*
- **M. R. Foreman**, C. Macías-Romero, and P. Török, "Information theoretic analysis of polarisation microscopy," EOS Advanced Imaging Topical Meeting, Jena, Germany June 2009.
- **M. R. Foreman**, C. Macías-Romero, and P. Török, "Determination of the three dimensional orientation of single molecules," Focus on Microscopy 2009, Krakow, Poland Apr 2009.
- **M. R. Foreman**, S. S. Sherif, P.R.T. Munro, and P. Török, "Inverse problems in high numerical aperture focusing systems," Focus on Microscopy 2008, Osaka, Japan Apr 2008.
- **M. R. Foreman**, S. S. Sherif, and P. Török, "Polarisation structured illumination," EOS Advanced Imaging Topical Meeting, Lille, France Sept 2007.
- **M. R. Foreman**, S. S. Sherif, and P. Török, "Determination of the orientation of a dipole subject to random orientational motion," Focus on Microscopy 2007, Valencia, Spain Apr 2007.