WOEI MING (STEVE) LEE, PhD, B. Eng

RM 3.365, 131 Garran Rd, Acton ACT 2601, John Curtin School of Medical Research, College of Health and Medicine, The Australian National University, Canberra, ACT 2601 *(E):*steve.lee@anu.edu.au

Summary

Steve earned his doctorate in optics and biophysics from the University of St Andrews and subsequently expanded his expertise into biomedicine during a postdoctoral fellowship at Harvard Medical School. Since joining ANU in 2013, he has been instrumental in building the institution's capacity in biomedical imaging and optical biophysics. As head of the **O**ptical **BI**ofluidic **G**roup **(O-BIG),** his research utilizes optical and fluidic technologies to investigate cell community responses to extracellular factors, with a primary focus on advancing the production of biological tissue substitutes. His accomplishments in research and translation have been acknowledged with over 35 talks (invited, keynote) and awards, including Australian Museum Eureka Prize (ANSTO Innovative Use of Technology), an ARC Discovery Early Career Award and Royal Society Incoming Fellowship (UK).

Over the last decade, Steve's team operates at the nexus of advanced imaging and biological physics with a motto to *"invent new optical techniques to precisely quantify the fundamental functions of biological systems and discover new biological physics."*

Current research is to leverage multiscale, label-free imaging tools to quantitate how fluid dynamics and chemical ligands work cooperatively to drive cell communities to upregulate Cell Adhesion Molecules (CAM) and self-organize into cohesive, living tissues. The research advances the science of multicellularity by demonstrating how a subtle range of diverse combinations of biofluidic forces complements biochemical signals in promoting multicellularity. The **outcomes** of this research aim to benefit tissue and biomaterial engineering, as well as the invention of new imaging technologies. The imaging technologies are currently being commercialized by Ability Optics Pty Ltd (CSIRO On Accelerator 9).

A. EDUCATION / TRAINING

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION — Canberra, ACT
ON ACCELERATE 9 PROGRAM (3 Month) — 7/2025
Entrepreneurial and Small Business Operations
Ability Optics Pty Ltd
Advisor: Hugo LeMessurier, Director of LeMessurier Solutions

HARVARD MEDICAL SCHOOL / MASSACHUSETTS GENERAL HOSPITAL — Boston, Cambridge
Wellman Centre for Photomedicine — 12/2012
Postdoctoral, BioImaging (Immunology, Oncology)
Project: Adaptive Intravital Microendoscopy to image immune and cancer cells in mice models.
Advisor: Seok-Hyun (Andy) Yun (Harvard Uni, MIT)

UNIVERSITY OF ST ANDREWS — St. Andrews, Fife
School of Physics and Astronomy — 06/2010
PhD, Physics (Optics and Biophysics)
Project: Optical Trapping and Force Spectroscopy for Cell Biology and Nanophotonics
Advisors: Kishan Dholakia (Uni. of St Andrews), Ewan Wright (Uni.of Arizona)

NANYANG TECHNOLOGICAL UNIVERSITY — Singapore
Electrical and Electronics Engineering — 07/2002
Bachelor with Honours, Engineering (Electronics)
Project: Computational Optics, Holography *Gold Award
Advisor: XiaoCong Yuan (NTU)

B. APPOINTMENTS

AMERICAN INSITUTE OF PHYSICS (AIP) PUBLISHING Melville, USA
- Associate Editor, AIP Advances 5/2024
  - Topics: Biophysics, Optics, Materials, Machine Learning

THE AUSTRALIAN NATIONAL UNIVERSITY Canberra, ACT
John Curtin School of Medical Research, College of Health and Medicine
- Group Leader (Tenured) - **Optical Biofluids Imaging Group (°BIG)** 01/2021 – Present
  Division of Genomics Sciences and Cancer, ANU Fellow
- CI, Centre for Computational Biomedical Sciences (CCBS) 09/2021 – Present
- CI, Centre for Intravital Imaging of Niches for Cancer Immune Therapy 01/2021 – 02/2026

ABILITY OPTICS PTY LTD Canberra, ACT
- Scientific Director and Co-founder 10/2024 – Present

RSEEME, College of Engineering and Computer Science
- Group Leader (Tenured) - Applied Optics Lab 01/2017–12/2020
  ARC-DECRA Fellow
- Junior Group Leader (Tenure-Track) - Applied Optics Lab 05/2013– 12/2016
  ANU-NIG Future Engineering Research Leader
- Associate Investigatorship, *CoE Advanced Molecular Imaging,* 01/2014 – 1/2021

UNIVERSITY OF NEW SOUTH WALES Kensington, Sydney
School of Physics 03/2012 – 04/2013
- Vice-Chancellor Fellow, *Project: Optical Manipulation of Nanowires*

WELLMAN PHOTOMEDICINE & HARVARD MEDICAL SCHOOL Cambridge, MA
BioOptics Lab 02/2010 -03/2012
- NIDDK/NIH Postdoctoral Fellow, *Project: Intravital Imaging*
- Physical Science Oncology Centre, Methodist Hospital-Node

UNIVERSITY OF ST ANDREWS St. Andrews, Fife
Optical Trapping Lab 02/2006 -06/2010
- Graduate research Assistant, *Project: Multimodality Microscopy, Colloidal Nonlinear optics*

EINST TECHNOLOGY PTE LTD Singapore
R&D Department 02/2005 – 2/2007, 1/2010
- Manager, Consultant *Project: Confocal microscope and optical tweezers for nanoscience*

NANYANG TECHNOLOGICAL UNIVERSITY Singapore
Microfabrication, Digital Holography 07/2002 – 02/2005
- Project Officer, *Project: Electron Lithography Holography*

C. VISITING APPOINTMENTS (Scientist, Fellow, Faculty)

Czech Academy of Sciences (CAS), Coherent X-Ray Laser (CFEL), Hamburg, (Germany), National Institutes of Health: Bethesda, MD, (USA), Garvan Institute of Medical Research (Sydney), Singapore University of Technology and Design (Singapore), Nanyang Technological University (Singapore).

D. HONORS, AWARDS, FELLOWSHIP

ON Accelerator Cohort 9	2025
Scientific Steering Committee, ACRF INCite	2021
Advisory Editorial Board Member, American Institute of Physics,APL-Machine Learning	2021
Advisory Editorial Board Member, American Institute of Physics, Biomicrofluidics	2021
Australian Research Council Discovery Early Career Award	2015
Royal Society (NSW) Speaker Medal	2014
Australian Eureka Prize "ANSTO Innovative Use of Technology"	2014
YouFab Global Creative Awards (Finalist)	2014
Edmund Optics International Higher Education Grant (Finalist)	2013
Future Engineering Research Leader (FERL) Fellowship	2012
UNSW Vice-Chancellor Fellowship Award	2012
Physical Sciences Oncology Young Investigators' Meeting	2011
The Royal Society (UK) International Incoming Fellowship	2006
Nanyang Research Scholarship	2003
Gold Award for Top Undergraduate Honor Research Project	2002

D. INVITED TALK | KEYNOTE | PUBLIC LECTURE

Lorentz Meeting on Sonomechanobiology (**Primer**)	2025
Australian New Zealand NanoMicroFluidics (ANZNMF) (Keynote)	2024
Australian Intravital Microscopy	2023
IEEE NANOMED,	2023
UQ, Institute for Molecular Bioscience	2022
Sechenov International Biomedical Summit	2021
Conference on Lasers and Electro-Optics (CLEO, Biomedical Applications)	2020
New and Emerging Technologies: Biotech meets Medicine (Fraunhofer institute)	2019
Biophotonics Early Careers Workshop (Uni Adelaide)	2019
International Society of Thrombosis and Haemostasis-Biorheology	2019
Australian New Zealand NanoMicroFluidics (ANZNMF)	2019
European Optical Society, Symposium for Optofluidic	2019
JCSMR Director's "Health through discovery" **(Public Lecture)**	2018
Congress of the Australian Institute of Physics	2018
Institute of Scientific Instruments, Akademie věd České republiky **(Public Lecture)**	2018
Australian New Zealand NanoMicrofluidics student workshop **(Tutorial)**	2018
John Curtin School of Medical Research School Seminar	2017
7th Advances in Microfluidics & Nanofluidics Conference	2017
OSA Photonics Healthcare	2017
OSA/CLEO Pacific Rim	2017
Asia Pacific Physics/Australian Institute of Physics	2016
Australian Camp of Parasitology **(Keynote)**	2016
Melbourne Photonics Symposium,	2016
OSA Photonics and Fibre Technology	2016
Australian Conference on Microscopy	2016
Australian Camp of Parasitology **(Keynote)**	2015
Material Research Society (Singapore)	2015
Australian Camp of Parasitology	2014
GOOGLE First World **(Keynote)**	2014
Australian Nuclear Science and Technology Organization **(Keynote)**	2014
The Royal Society of New South Wales **(Keynote)**	2014

Australian Biomedical Engineering Conference	2014
TEDxCanberra, Australia **(Keynote)**	2014
OSA Optical Fabrication and Testing (OF&T)	2014
Animal Models of Weight Loss Surgery	2011
St Andrews Open Association **(Public Lecture)**	2011

E. FUNDINGS

Total Direct/Indirect funding ~AUD $15.8 million (Chief, Partner, Associate: Investigatorship– CI,PI,AI)

<u>CI (Lead role- Direct Funds)</u>			
On Accelerator Cohort 9	CI-A, CSIRO	2025	$30,000
Compact Spatial Intensity Contrast	CI-C, ANU Impact Fund	2023	$50,000
Spatial Adaptive Imaging (Top-10%)	CI-A, AEA Dept of Education,	2023	$142,000
Raster Adaptive Optics	CI-C, ACRF InCite	2021-2022	$225,000
Understanding Thrombus (Top 10%)	CI-B, NHMRC Ideas	2021-2024	$890,000
5D Imaging Flow Cytometry (Top 16%)	CI-A, ARC-Discovery Proj	2020-2023	$470,000
Multiplex Microscopy (Top 18%)	CI-B, ARC-Discovery Proj	2019-2022	$440,000
Fluorescent nanodiamonds trafficking	CI-A, CSIRO seed grant	2020	$2,500
Industry Priming grant	CI-A, ASTE	2017	$7,000
Regulating gene delivery with light (Top 16%)	Fellowship, ARC-DECRA,	2016-2019	$330,000
Ultraflexible polygon microscopy I	CI-A, AusIndustry	2018-2019	$100,000
Mobile Microscopy	CI-A, PBCRC,	2014-2015	$30,000
Disposable Microscope Lens Fabrication	CI-A, Connect Venture,	2014-2015	$51,000
Moldless fabrication of lenses	CI-A, Industry (Romar Eng)	2016	$30,000
DiSCAPE	AI, ARC-Centre Adv Mol Imaging	2017,	$50,000
Rapid immune imaging of spleen	AI, ARC-Centre Adv Mol Imaging	2016-2017	$50,000
Light-based genetic engineering	Vice Chancellor Fellowship (UNSW)	2012-2015	$270,000
			$3.137 mil
<u>Co-CI, External-led</u>			
Intravital Imaging of Niches for Cancer Immune Therapy	CI-C, ACRF	2021-2024	$2,800,000
3-photon AO deep live imaging	CI-C, ARC-LIEF	2021	$875,000
Ultraflexible polygon microscopy II	PI, AusIndustry	2019-2020	$50,000
			$3.725 mil
<u>Participant</u>			
System Microscopy	CI-G, ARC-Infrastructure	2017-2018	$600,000
OCT and XCT	CI-E, DB-exploration,	2016-2020	$8,000,000
Multimodality OCT	CI-B, Connect Venture,	2016-2017	$50,000
In-vivo adaptive laser scalpel endoscopy	Fellowship, UNSW-ECR	2013	$20,000
Ultrafast spectroscopy and imaging	PI, MREII,	2013	$100,000
			$8.8 mil
<u>Internal</u>			
Nanospectroscopy	CI-C, MEC	2023	$120,000
Ultrafast laser facility	CI-C, MEC	2017	$170,000
Rapid Volumetric Optical Microscope	CI-A, ANU-MEC,	2016	$90,000
Ultrafast laser for time-resolved imaging	CI-C, ANU-MEC,	2015	$170,000
Microfluidic and Soft Lithography Facility	CI-A, ANU-MEC,	2015	$90,000
Future Engineering Research Fellowship	sole-CI, ANU-NIG,	2013-2019	$500,000
			$1.14 mil

Other PROJECTS (named co-investigator, advisor)

Advisor,	KickStarter, Macrolens and Microlens for Smartphone	2015
1RC1DK086242-1	Endoscopic Therapy-diagnostics System	2010
1RC2DK088661-01	Small Animal Metabolic Surgery (SAMS) Resource Core	2010
EP/F025602/1	Light Induced Self Assembled Colloidal Systems	2008

F. PUBLICATIONS

(Google Scholar, h-index =28, 2957total cites, † Corresponding, *Equal Contribution, May 2024**)**

F0. WHITE PAPER

- Yean Jin Lim, Andrew Waddell, Tienan Xu, Zhiduo Zhang, Deborah Barkauskas, Angela Fontaine, Tong Wu, Chunsong Yan, Tri Phan, Woei Ming Lee,"Raster Adaptive Optics: Simplifying adaptive imaging" Ability Optics (2024)

F1. BOOK CHAPTER

1. V R. Daria & W.M.Lee, "Optical nanomanipulation and structured-beam optical traps", **Comprehensive nanoscience and Nanotechnology** 2nd Edition, *Elsevier* 4, 347-360 (2019)
2. Dholakia, K. & W.M.Lee, "Optical Trapping Takes Shape: The Use of Structured Light Fields", **Advances in Atomic, Molecular and Optical Physics**, *Elsevier 56. 261-337* (2008)

F2. NEWS ARTICLE | LETTER TO EDITOR

- OSA Spotlight Summary on new way of droplet lens fabrication **(link)**
- W.M.Lee†" Miniature droplet Lenses for Mobile Microscopy", **SPIE Newsroom** 0.117/2.1201504005972 (2015)
- Droplet lens work highlighted by Cartwright, "Technology: Smartphone science" Naturejobs 531 (2016)
- "Pocket Pathology", The Pathologist - Texere Publishing 314, 39-41 (2014)
- "A droplet approach to lens making", Australian Optics Society News 28, 30 (2014)
- "Reinventing Pocket Microscopy", Proceedings of the Royal Microscopical Society 37, 41- 43 (2015)
- "Frugal microscopy: Inspiring tomorrow's interdisciplinary scientist", Proceedings of the Royal Microscopical Society 36, 24-25 (2014)

F3. Peer-Reviewed Publications

63 *Yean J. Lim, Samantha Holt, Tienan Xu, Hanqi Lin , David Herrmann, Paul Timpson, Tri G. Phan, Woei Ming Lee "Photosensitized thiol-ene (TE) ultraviolet polymer for Infrared wavelengths for microfabrication of 3D cell culture devices* ***In Prep (2025)***

62 *Y J Lim, T X, A V C Trecea, N Singha, W M Lee" Prototyping Flow Bioreactors for Hydrodynamic Cell Trapping"* ***In Prep (2025)***

61 *T Xu, Junyu Lim, Y J Lim, W M Lee et al Multi-Angle Computational Single Objective Light Sheet* ***In Prep (2025)***

60 *Avinash Upadhya†, Yean Jin Lim,W M Lee† "Combining Multi-site FRAP and HILO-TIRF microscopy using a Spatial Light Modulator" Preprint* ***(Revision)2025***

59 *Junyu Liu, Yean Jin Lim, David Herrmann, Paul Timpson, Tri G. Phan, Huafeng Liu, Min Guo and Woei Ming Lee†, "Using rotational integration of oblique interferometric scattering (RO-iSCAT) to track axial spatiotemporal responses of membrane protrusions" Preprint* ***(Under Review)***

58 *Sophie Bulloch, Tienan Xu, David Herrmann, Paul Timpson, Tri Giang Phan, Yean Jin Lim†, Woei Ming Lee† "Imaging throughput of compact handheld microscopes for quantitative single cell studies" Preprint* ***(Under Review)***

57 N D Bhattacharyya , W Kyaw, M M. McDonald, R Dhenni , A K. Grootveld , Y Xiao , R Chai, W H Khoo, L C. Danserau, M Sergio, P Timpson, W M Lee, P I. Croucher, T G Phan "Minimally invasive longitudinal intravital imaging of cellular dynamics in intact long bone" **Nat Protocol (2023)**

56 Anand V., Tahara T., Lee W.M. "Advanced optical holographic imaging technologies" **Applied Physics B: Lasers and Optics,** 128, 198 **(2022)**

55 Tienan Xu, Hanqi Lin, Yean J Lim, Philip R Nicovich, Katharina Gaus, WM Lee, "Computational single-objective scanning light sheet (cSOLS)", **APL Photonics** 7, 081302 **(2022)**

54 Y Zheng*, Yean Jin Lim*, Hanqi Lin, Tienan Xu, Carmen Longbottom , Viviane Delghingaro-Augusto, Yee Lin Thong, Christopher Parish, Elizabeth E Gardiner, Woei Ming Lee "Combined scattering, interferometry and fluorescence oblique illumination for live cell nanoscale imaging " **ACS Photonics** (2022)

53 M M. McDonald, Weng Hua Khoo…… P. Timpson, W M Lee,…,.P Croucher, T G Phan, "Osteoclasts recycle via osteomorphs during RANKL-stimulated bone resorption" **Cell (Cell Press)** 4 1330-1347 (2021)

52 Y Zheng, S J. Montague, Y J Lim, T Xu, E. E. Gardiner, W M Lee, "Label-free multimodal quantitative imaging flow assay for intra-thrombus formation in vitro" **Biophys J (Cell Press)** 2 120 (2021)

51 T Xu,Y J Lim, Y Zheng, M S Jung, K Gaus, E E. Gardiner, W M Lee "Modified inverted selective plane illumination microscopy for sub-micrometer imaging resolution in polydimethylsiloxane soft lithography devices" **Lab on Chip**, **20**, 3960-3969 (2020)

50 Z Zhang, Y Zheng , T Xu , A Upadhya, Y J Lim , A Mathews, L X Xie , W M Lee "Holo-UNet: hologram to hologram neural network restoration for high fidelity low light quantitative phase imaging of live cells" **Biomedical Optics Express** 11, 5478 (2020) **Top 20 Photonics Technology selected by Laser Focus World, Press coverage by ACM, Laser Focus World*

49 SJ Montague, SM Hicks, C S-M Lee, LA Coupland, CR Parish, WM Lee, RK Andrews, EE Gardiner, "Fibrin exposure triggers αIIbβ3-independent platelet aggregate formation, ADAM10 activity and glycoprotein VI shedding in a charge-dependent manner" **Journal of Thrombosis and Haemostasis** *18: 1447– 1458 (2020) doi.org/10.1111/jth.14797*

48 S.J Montague, Y.J Lim, W.M Lee and E.E Gardiner, "Imaging platelet processes and function – current and emerging approaches for imaging in vitro and in vivo" **Front. Immunol. – Inflammation** (2020) doi: 10.3389/fimmu.2020.00078

47 Y X Li, Y J Lim, Q K Xu, L Beattie, E E Gardiner, K Gaus, W Heath, W.M. Lee†, "Raster Scanning Adaptive Optics for video rate correction and large field of view imaging" **Biomedical Optics Express** 2 1032 (2020)

46 Y Wang*, X F He*, K F Bruggeman, B Gayen, A Tricoli, W M Lee, R J Williams, D R Nisbet, "Peptide Programmed Hydrogels as Safe Sanctuary Microenvironments for Cell Transplantation" **Advanced Functional Material** 1900390 (2020)

45 A. Upadhya*, Y Zheng*, W.M.Lee†, "Structured Back focal plane interferometry" **Scientific Reports** 9, 20273 (2019)

44 M Lui, E. E. Gardiner, J.F. Arthur, I Pinar, W M Lee, K Ryan, J Carberry, Robert K. Andrews "Thrombus Formation in Shear Gradients: Influence of Shear Forces and Human Platelet-Related Factors" **Int. J. Mol. Sci**. 20(12), 2967 (2019)

43 X.F. He, SJ Montague, Xu Tao, EE Gardiner, W.M.Lee†, "Quantifying embolism: label free volumetric mapping of thrombus structure and kinesis in a microfluidic system with optical holography" **Advanced Biosystems** 1800089 (2018) ** Ranked #28/92 of Advanced Biosystems (Altmetric),Canberra Times (Front page), Xinhua, ABC radio, ITW, MedicalExpress (over 7 media outlets)*

42 W. M. Lee†, T McMenamin, Y X Li "Optical toolkits for in vivo deep tissue laser scanning microscopy: a primer ", **Journal of Optics** 20 063002 (2018)

41 Y X Li, S.J. Montague, A Brüstle, X.F. He, C. Gillespie, K Gaus, E.E. Gardiner, W.M.Lee † "High contrast imaging and flexible photomanipulation for quantitative in vivo multiphoton imaging with polygon scanning microscope" **Journal of Biophotonics** e201700341 (2018)

40 T. Kamal, L. Yang, W. M. Lee† "In situ retrieval and correction of aberrations in moldless lenses using Fourier Ptychography ", **Optics Express** 26 2708 -2719 (2018)

39 S. J. Montague, C Delierneux, C Lecut, N Layios, R J. Dinsdale, C Lee, N S. Poulter, R K. Andrews, P Hampson, C M. Wearn, N Maes, J Bishop, A Bamford, C Gardiner, W.M.Lee, T Iqbal, N Moiemen, S. P. Watson, C Oury, P Harrison, E. E. Gardiner, "Soluble GPVI is elevated in injured patients: shedding is mediated by fibrin activation of GPVI", **Blood Advances** 2 240 (2018)

38 Qi Fang, A Curatolo, P Wijesinghe, J Hamzah, P Noble, R Ganss, J K Kim, W. M. Lee, B Kennedy, "Ultrahigh resolution optical coherence elastography through a micro-endoscope: towards in vivo imaging of cellular-scale mechanics" **Biomedical Optics Express** 8 5127 (2017)

37 R. Fleddermann*, W. M. Lee *†, K Huang, G. Campbell , P. K. Lam , J. H. Chow, "Compact flexible multi-pass rotary delay line using spinning micromachine mirror" **Scientific Reports** 7 9299 (2017)

36 J Choy, S Sane, W M Lee, C Stricker, H Bachor, V Daria, "Improving focal photostimulation of cortical neurons with pre-derived wavefront correction" **Frontiers in Cellular Neuroscience** 11, 105 (2017)

35 Y X Li* , V Gautam, A Brustle, I A Cockburn, V R Daria, C Gillespie, K Gaus, C Alt, and W M Lee †* "Flexible polygon-mirror based laser scanning microscope platform for multiphoton in-vivo imaging" **Journal of Biophotonics** 10 1526 (2017) *Highlighted Australian Research Council "Making a difference—Outcomes of ARC supported research" Top 5% of all publication and Ranked #2/720 of Journal of Biophotonics(Altmetric) * Photonics.com, Phys.org, Canberra Times, Xinhua (over 9 media outlets)*

34 T Kamal, R Watkins, Z Cen, J Rubinstein, G Kong and W.M.Lee† "Design and fabrication of a passive droplet dispenser for portable high resolution imaging system" **Scientific Reports** 7 41482 (2017)

33 X F He, C V Nguyen, M Pratap, Y Zheng, Y Wang, D R. Nisbet, A. G. Maier, W.M.Lee † "Automated Fourier space region recognition filtering for off-axis digital holographic microscopy" **Biomedical Optics Express** 7(8), 3111-3123 (2016)

32 W Zhu*, N Eckerskorn, A Upadhya, L Li , A V. Rode† and W.M.Lee *†" Dynamic axial control over optically levitating particles in air with an electrically-tunable variable-focus lens" **Biomedical Optics Express** 7(7), 2902-2911 (2016)

31 M Choi, W.M. Lee, S H Yun, "Intravital Microscopic Interrogation of Peripheral Taste Sensation", **Scientific Reports** 5 8661 (2015) Top 5% of all publication and Ranked #23/825 of Sci Reports (Altmetric) , * CBS News (US), ABC Radio, Photonics.com, Microscopy And Analysis, Business Insider, Phys.org (over 13 media outlets)

30 W.M.Lee†, A. Upadhya, P.J. Reece, T G Phan, "Fabricating Low Cost and High Performance Elastomer Lenses using Hanging Droplets", Biomedical Optics Express 5 1626-1635 (2014) *Top 5% of all publication and Ranked #2 of all Biomedical Optics Express (Altmetric) *Selected Press Coverage (Print, TV, Radio): OSAOPN, Physics World, Time.com, New Scientist.nl, The Australian, SBS1, NineNews, ABC Radio, Phys.org, Laser Focus World, Photonics.com, International Business Times, MedGadget, COSMOS (over 39 international media articles).*

29 L Li*, W.M.Lee*†, X.S Xie, W.Z Krolikowski, A.V. Rode, J Y Zhou, "Shaping Self-imaging Bottle Beams with Modified QuasiBessel Beams", **Optics Letter** 82278-2281 (2014)

28 Niko Eckerskorn, Li Li, Richard A. Kirian, Jochen Küpper, Daniel P. DePonte, Wieslaw Krolikowski, W M. Lee, Henry N. Chapman, and Andrei V. Rode, "Hollow Bessel-like beam as an optical guide for a stream of microscopic particles," **Opt. Express** 21, 30492-30499 (2013) ** Reported in Virtual Journal of Bio*

27 F Wang, W Toe, W.M. Lee et al "Resolving Stable Axial Trapping Points of Nanowires in an Optical Tweezers Using Photoluminescence Mapping" **Nano letters** 13 1185–1191 (2013)

26 Akiyoshi, T., W. M. Lee, *et al.* "In Vivo Two Photon Microscopy of Aortic Allografts: A New Tool for Investigation of the Dynamics of Graft Vascular Rejection." **American Journal of Transplantatio**n 12: 466-466. (2012).
25 J K Kim*, W.M Lee* *et al*, In vivo cellular imaging of internal organs in small animals with GRIN fluorescence endomicroscopy: from fabrication to imaging" **Nature Protocols** *7* 1456-1469(2012) *Cover Article
24 W. M. Lee, S H Yun "Adaptive aberration correction of GRIN lenses for confocal laser scanning micro-endoscopy," **Optics letters** 36, 4608 (2011). *Reported in Virtual Journal of Bio*
23 Y. Arita, M. L. Torres-Mapa, W. M. Lee, T.Cizmar, P. Campbell, F. J. Gunn-Moore, and K. Dholakia, "Spatially optimized gene transfection by laser-induced breakdown of optically trapped nanoparticles," **Applied Physics Letters** 98, 093702 (2011).
22 J. C. Shane, M. Mazilu, W. M. Lee, and K. Dholakia, "Effect of pulse temporal shape on optical trapping and impulse transfer using ultrashort pulsed lasers," **Optics Express** 18, 7554-7568 (2010).
21 P. Mthunzi, W. M. Lee, A. C. Riches, C. T. A. Brown, F. J. Gunn-Moore, and K. Dholakia, "Intracellular dielectric tagging for improved optical manipulation of mammalian cells," **IEEE Selected Topics in Quantum Electronics** 16, 608-618 (2010).
20 T. H. Chow, W. M. Lee†, K. M. Tan, B. K. Ng, and C. J. R. Sheppard, "Resolving interparticle position and optical forces along the axial direction using optical coherence gating," **Applied Physics Letters** 97, 231113 (2010).
19 K. M. Tan, M. Mazilu, T. H. Chow, W. M. Lee, K. Taguchi, B. K. Ng, W. Sibbett, C. S. Herrington, C. T. A. Brown, and K. Dholakia, "In-fiber common-path optical coherence tomography using a conical-tip fiber," **Optics Express** 17, 23752384 (2009). *Reported in Virtual Journal of Bio, Covered by OCT News*
18 W. M. Lee†, R. El-Ganainy, D. N. Christodoulides, K. Dholakia, and E. M. Wright, "Nonlinear optical response of colloidal suspensions," **Optics Express** 17, 10277-10289 (2009).
17 R. El-Ganainy, D. N. Christodoulides, E. M. Wright, W. M. Lee, and K. Dholakia, "Nonlinear optical dynamics in nonideal gases of interacting colloidal nanoparticles," **Physical Review A** 80, 053805 (2009).
16 J. L. Hernandez-Pozos, W. M. Lee, L. I. Vera-Robles, A. Campero, and K. Dholakia, "Controlled three-dimensional manipulation of vanadium oxide nanotubes with optical tweezers," **Applied Physics Letters** 93, 243107 (2008).
15 W. M. Lee, P. J. Reece, R. F. Marchington, N. K. Metzger, and K. Dholakia, "Construction and calibration of an optical trap on a fluorescence optical microscope," **Nature Protocols** 2, 3226-3238 (2007).
14 W. M. Lee, and K. Dholakia, "Optically trapped and controlled microapertures for studies of spatial coherence in an arbitrary light field," **Applied Physics Letters** 90, 261101 (2007).
13 K. Dholakia, W. M. Lee, L. Paterson, M. P. MacDonald, R. McDonald, I. Andreev, P. Mthunzi, C. T. A. Brown, R. F. Marchington, and A. C. Riches, "Optical separation of cells on potential energy landscapes: Enhancement with dielectric tagging," **IEEE Selected Topics in Quantum Electronics** 13, 1646-1654 (2007).
12 W. M. Lee†, V. Garcas -Chavez, and K. Dholakia, "Interference from multiple trapped colloids in an optical vortex beam," **Optics Express** 14, 7436-7446 (2006).
11 X. Yuan, B. P. S. Ahluwalia, W. C. Cheong, L. S. Zhang, W. M. Lee, K. J. Moh, J. Lin, and S. H. Tao, "High efficient microoptical elements for optical vortices in optical manipulation," **OPN**, (2005).
10 K. J. Moh, W. M. Lee, W. C. Cheong, and X. C. Yuan, "Multiple optical line traps using a single phase-only rectangular ridge," **Applied Physics B: Lasers and Optics** 80, 973-976 (2005).
9 W. M. Lee, B. P. S. Ahluwalia, X. C. Yuan, W. C. Cheong, and K. Dholakia, "Optical steering of high and low index microparticles by manipulating an off-axis optical vortex," **Journal of Optics A: Pure and Applied Optics** 7, 1 (2005).

8 S. H. Tao, W. M. Lee, and X. Yuan, "Experimental study of holographic generation of fractional Bessel beams," **Applied optics** 43, 122-126 (2004).

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F4. CONFERENCE PROCEEDINGS (Peer Review)

- Yujie Zheng , Samantha J. Montague , Yean Jin Lim, Tienan Xu, Elizabeth E. Gardiner, Woei Ming Lee, "Coherent Optical Scattering and Interferometry (COSI) Microscopy for Morphological Imaging of Thrombus" CLEO (2020) *In Press*
- Ariful Hoque Chowdhury, Richard Hartley, C V Nguyen, Woei Ming Lee, "Detecting polarization state with an optical rotation filter", Asian Conference on Computer Vision *under review* (2020)
- F. M. Ayyalil, S. J. Montague, S. Hicks, A. Kaur, A. Jahangiri, N. Pati, P. Crispin, Y. Zheng, X. Tienan, L. Coupland, W. M. Lee, J. D'Rozario, and E. E. Gardiner, Blood (American Society of Haematology) 134, 4884-4884 (2019).
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- Z. Zhang, L. Xie, A. Mathews, X. He, W.M. Lee†, Noise reduction in ultra-low light digital holographic microscopy using neural networks, Biophotonics Australasia 2019, International Society for Optics and Photonics, 2019, p. 1120208.
- T. Xu, Y. Li, W.M. Lee†, Upright aNd inverted polygon microscope (UNI-SCOPE), Biophotonics Australasia 2019, International Society for Optics and Photonics, 2019, p. 112021I.
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- Y.J. Lim, Y. Li, W.M. Lee†, Achieving 3D FRAP using multiphoton polygon scanning microscopy, Biophotonics Australasia 2019, International Society for Optics and Photonics, 2019, p. 1120217.
- He, SJ Montague, X Tao, EE Gardiner, WM Lee" Advanced Optical Imaging of Blood Thrombus" EPJ Web Conf 215, 11003
- Q Fang ; A Curatolo ; P Wijesinghe ; J Hamzah ; R Ganss ; P B. Noble ; K Karnowski ; D D. Sampson ; J K Kim ; W M. Lee ; B.F. Kennedy "Ultrahigh resolution optical coherence elastography combined with a rigid micro-endoscope" Proc. SPIE 10053, Optical Coherence Tomography and Coherence Domain Optical Methods in Biomedicine XXI, 1005309 (February 17, 2017); doi:10.1117/12.2254815.

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- T J McMenamin, W M Lee† "A Compact Multi-Trap Optical Tweezer System based on CD-ROM Technologies" Proceedings Volume 10347, Optical Trapping and Optical Micromanipulation XIV; 103472O (2017) https://doi.org/10.1117/12.2273674
- X. He, K. Gaus, and W. M. Lee, "Label-free dynamic volumetric imaging of deforming giant unilamellar vesicles under micro-flows," in *Optics in the Life Sciences Congress*, OSA Technical Digest (online) (Optical Society of America, 2017), paper BoS2A.2
- Y. Li, H. M. Huang, G. Burgio, W. Heath, and W. M. Lee, "Dynamic control over field of view in polygon mirror-based laser scanning multiphoton microscope," in *Optics in the Life Sciences Congress*, OSA Technical Digest (online) (Optical Society of America, 2017), paper BoTu3A.2
- T Kamal, J Rubinstein, R Watkins, Z Cen, G Kong and W.M.Lee† "Thimble microscope system" SPIE BioPhotonics Australasia 10013, 1001322-1001322-5 (2016)
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- X He, C V Nguyen, M Pratap, Y Zheng, Y Wang, D R. Nisbet, A. G. Maier, W.M.Lee † "Adaptive spatial filtering for off-axis digital holographic microscopy based on region-recognition approach with iterative thresholding" SPIE BioPhotonics Australasia 10013, 1001329-1001329-7 (2016)
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- W Zhu, N Eckerskorn, W M Lee † and A V. Rode" Dynamic axial control over optically levitating particles in air with an electrically-tunable variable-focus lens" ICONN (2016)
- R. Fleddermann, W. M. Lee †, K Huang, G. Campbell , P. K. Lam , J. H. Chow , D. E. McClelland, "Compact 20 kHz delay line with cascading multi-level phase plate for low coherence interferometry" ANZCORP(2015)
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- M Choi, W.M. Lee, S H Yun, "Intravital Microscopic Interrogation of Peripheral Taste Sensation", Annual Meeting of the Society for Neuroscience(2014)
- W. M. Lee†, "Imaging Cells in Living Animals with two photon in-vivo aberration free endomicroscopy" Australian Biomedical Engineering Conference 2014
- (Invited) W. M. Lee†, "High performance and low cost elastomer optics," in Classical Optics 2014, OSA Technical Digest (online) (Optical Society of America, 2014), OTh4B.1.
- W. M. Lee†, "Stick-On Microscope for Smartphones" Proceedings of SPIE-BIOs Optical Diagnostics and Sensing XIV: Toward Point-of-Care Diagnostics 8951-16 (2014)
- W.M. Lee†, "Microscopy On the Move", SPIE Digital Photography X 9023-9 (2014)
- Li Li, N Eckerskorn, R A. Kirian J Küpper, D P. DePonte, Krolikowski, W.M. Lee, H N. Chapman and A V. Rode "Quasi- Bessel hollow beam as optical guide for micro-particles" SPIE Optical Trapping and Manipulation (2013)

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F5. THESIS

- W.M. Lee (2010) "Optical Trapping: Optical Interferometric Metrology and Nanophotonics" University of St Andrews (UK), *Doctoral Thesis,*

- W.M. Lee & W.Y.Yap (2002) “Computer generated holograms for optical tweezers”, Nanyang Technological University (Singapore) *Honors (Research) Thesis*

F6. PATENT

- T.Xu, W.M.Lee "A computational microscopy method and system for volumetric imaging" WO Patent WO/2024/020,655
- W.M.Lee, Y X Li, Y J Lim, “Laser Scanning System” US Patent App. 17/788,601 (2019)
- Z Cen, W.M.Lee “ Methods for Fabricating Lenses” AU 2016903569 Filed Aug (2016)
- R Fleddermann, W.M. Lee, J Chow "Improvement in optical delay line" AU2016902093 Filed June (2016)
- W.M. Lee “Fabricating Lenses with Gravity” Patent WO2015113105 A1, PCT/AU2015/000041 (2015)

E. SERVICE & TEACHING

E1. SERVICE

Convenor,	Inaugural Janelia-Australian Bioimaging Edu lectures	2020-2021
Program Committee,	SPIE Photonics Instrumentation Engineering VIII,VIV	2020- present
Instructor,	Lightsheet/SPIM microscopy, AMMS	2020
Program Chair,	Advanced Optical Microscopy, ACMM26	2020
Mentor,	Network for Early Career Acad (CBE-Lecturer Dr Zhang)	2019-2020
Judging Committee,	ANU Vice-Chancellor Awards 2019	2019
Program Committee,	ANZCOP Biophotonics	2019
Program Chair,	OSA Advanced Photonics Congress	2019 - present
Working Group,	School Review – Leadership training	2018-2019
Committee,	School Renaming (RSEng to RSEEME)	2018-2019
Program Committee,	Optics Within Life Sciences (OWLS)	2018
Program Committee,	IEEE Biomedical Imaging (ISBI)	2017
Program Committee,	5th International conference for Biophotonics	2017
Core Technical Committee,	OSA Technical Group, Imaging Optics Design	2016- present
Working Committee,	CECS Scholarship selection	2016
Session Chair,	Australian Institute of Physics	2016
Session Chair,	SPIE Biophotonics Australasia	2016
Program Committee,	OSA Advanced Photonics Congress	2014-2018
Judging Committee,	OSA Milton-Chang Award	2015
Colloquium Organizer,	College of Engineering and Computer Science	2014-2016
Attendee,	Go8 Graduate Research Leadership Workshop	2014
Working Committee,	CECS Scholarship selection	2014
Judging Committee,	OSA Excellent Student Chapter	2013
Committee Member,	OSA Optics in Life Science	2012

E2. TEACHING

Convener	MEDN3820 Biomedical Imaging Sciences	2022-present
Coordinator	Harvard/MIT- ANU Biomedical Optics Summer School	2015-2017
Convener	ENGN3820 Biomedical Imaging	2014-present
Lecturer	PHYS8014, BioNanophotonics	2016

E3. REVIEWER

Project Grant	Fund for Scientific Research-FNRS	2023- Present
Project Grant	Israel Science Foundation	2023
Project Grant	European Research Council (Starter Grant)	2023
Project Grant	Ministry of Science and Technology (MOST) of Taiwan	2019
Fellowship	American Australian Association Expert Review	2017- present
Project Grant	National Health and Medical Research	2018
Project Grant	Marsden Fund Council (Royal Society of New Zealand)	2017
Project Grant	Research Grants Council (RGC) Hong Kong (GRF1, GRF2, ECS)	2017-present
Project Grant	Australian Research Council (Discovery| Linkage | Infrastructure)	2014-present
Fellowship	Australian Research Council (Future Fellow| Early Career)	2014-present
Project Grant	Rosetrees Trust Research, United Kingdom	2014
Journals	**OSA**: Opt Lett, OPTICA, Opt Exp, JOSA, Biomed Opt Express.	2010-present
	Springer Nature: Nature Communications, Scientific Reports, Biomed Micro, **Elsevier**: Optics Communications, **Wiley**: Advanced Materials, Advance Science, iScience	
Thesis (PhD)	UNSW, Uni Melb Uni Auckland, Uni Tas, LaTrobe Uni, Maquire Uni	2016- present

E4. CURRENT RESEARCHERS *(v)- visiting*

Current Primary Supervisor:	Dr Daniel Yean Jin Lim, Senior Imaging Scientist	2019 - Present
	Mr Tienan Xu, PhD student	2019 - Present
	Mr Junyu Liu, Visiting PhD student	2024 – Present
	Ms Haya Zaidan, Honour Student	2025- 2026
	Mr Jack Sarran, Honour Student	2025- 2026
	Dr Klaus Metzger, Fellow *(v)*	2024 - Present

E5. ALUMNI (Primary supervisor)

Staff		**Current Position**
2023:	Mr Makoto Bannon, Visiting Med Student	3rd Year Medical Student (TDMU)
2020-2023:	Mr Zhiduo Zhang, Imaging Scientist	CV Scientist (Droneshield)
2022-2023	Mr Andrew Waddell, Imaging Technician	Royal Naval Officer
2022:	Ms Felicity Lin, Imaging Intern	Research Officer
2020-2022:	Mr Hanqi Lin, Imaging Technician	MSc, UC Santa Cruz
2020-2022	Mr Junxiang Zhang, Imaging Technician	PhD Student (Engineering)
2020-2022	Mr Jasper Li, Imaging Technician	Senior Academic Tutor
2020 :	Dr Julia McCoey	Trendbio Pty Ltd
2017-2020:	Mr Tao Xu, Lab Technician	Toyota Graduate Program
2017-2019:	Dr Yuanqing (Alex) Ma, NHMRC Fellow (v)	EMBO Fellow
2016-2017:	Dr Samantha Montague, Postdoc	Postdoctoral Researcher, JCSMR
2016-2017:	Dr Roland Fleddermann, Postdoc	Postdoctoral Researcher, DQS
2015:	Mr Zijian Cen, Research Assistant,	Product Analytics Engineer ResMed

Graduate students		**Current Position**
2023-2024	Ms Samantha Holt,	Doctor of Medicine(MD) (UniSyd)
2023-2024	Ms Sophie Bulloch,	Technical Specialist (CCIA)
2022-2023:	Mr Zhiduo Zhang, MPhil	CV Scientist (Droneshield)
2022 :	Mr Neeraj Singh *(v)*, PhD	PhD student, IIT Delhi
2017 - 2023:	Mr Avinash Updahya,, PhD	Postdoctoral, University Adelaide
2017 - 2022:	Mr Yujie Zheng PhD	Optical Engineer, MGI/BGI

2015 - 2019:	Mr Yongxiao Li, PhD		Associate Professor, BUPA
2014 - 2018:	Ms Xuefei He, PhD		Imaging Engineer, HiSilicon
2014 - 2018:	Ms Tahseen Kamal, PhD		Postdoctoral, UNSW-Canberra
2016 - 2017:	Miss Wei Zhong, Master *(v)*		Research Scientist, Science Sport
2013 - 2016:	Mr Niko Eckerskorn, PhD		Analytics Engineer, CoreLogic RP
2015 - 2016:	Mr Wengou Zhu, PhD *(v)*		Lecturer, Shenzhen Uni
2014 – 2015:	Mr Redmar Vileg Master *(v)*		PhD student, Leiden Uni
2013 – 2014:	Mr Huang Longyao, Masters (ANU)		Sales, Glasstech
2013 – 2014:	Miss Sjoukje Schoustra, Masters *(v)*		PhD student, Uni Twente
2013 – 2014:	Miss Li Li, PhD *(v)*		Research Engineer, Huawei Tech

Undergraduate			**Current Position**
2019-2020	Mr Junxiang Zhang		Undergraduate student, ANU
2019-2020:	Mr Sanjeev Prabaharan		Undergraduate student, ANU
2019 :	Mr Alex Taylor		Undergraduate student, ANU
2017-2018:	Mr Zhiduo Zhang		Research Assistant, MPhil ANU
2017-2018:	Mr Tienan Xu		PhD student, ANU
2018:	Ms Hui Wang *(v)*		Graduate student, Georgia Tech
2015 - 2016:	Mr Thomas McMenamin		MPhil student ANU
2015 - 2016:	Mr Avinash Upadhya,	**Uni Medalist**	PhD student ANU
2015 - 2016:	Mr Yang Lu		PhD student QUT
2015 - 2016:	Mr Tao Xu		Technician, MSc, MPhil ANU
2014 - 2015:	Mr Misha Petkovic		Engineer, Seeing Machines
2015 - 2016	Miss Yi Du		--
2015 - 2016	Miss Yujie Zheng		PhD student ANU
2015 - 2016	Mr Lyle Halliday	**IET Prize, Uni Medalist**	Research Engineer Cochlear
2014 - 2015	Mr Zachary Shafron,	**Honor mention (Project)**	Research Engineer EOS
2013 –2015	Mr Avinash Upadhya,	**Yao Su Student Award**	PhD student ANU
2014 –2015	Ms Rachel Watkins,	**YouFab Finalist**	Teacher (Mathematics)
2014 –2015	Mr David Wright		System Engineer
2014 –2015	Mr Jaden Rubstein		Engineer
2014 –2015	Mr Zi Cen (Kenny)		Analytics Engineer ResMed
2014 –2015	Mr Alan Harrison		--
2013 –2014	Miss Siti Mohd Shariaf		--