

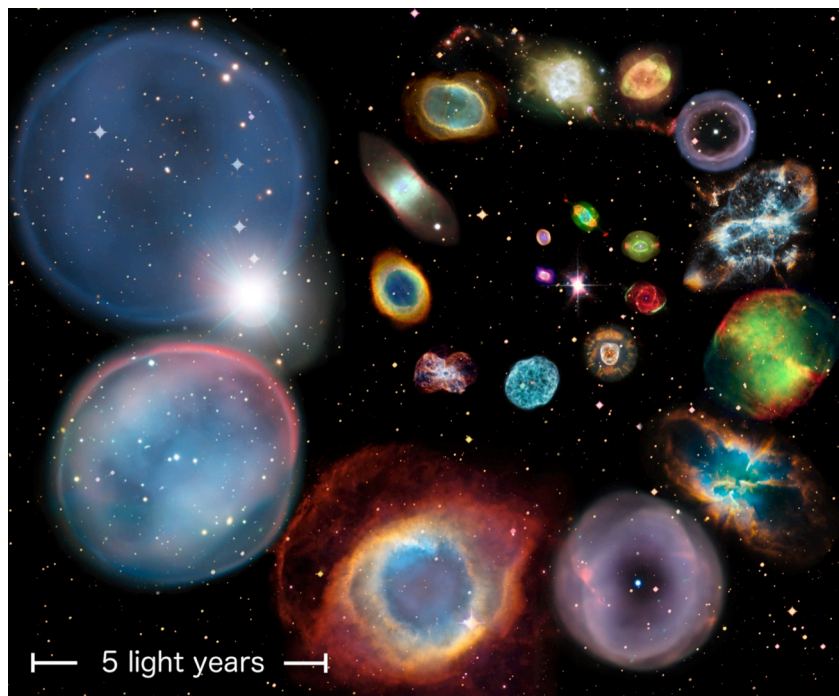
Autumn

2018

Curriculum Vitae

Quentin Andrew Parker

From Research and Teaching to Academic & Scientific Leadership



WHO I AM



If I were to try to summarize myself in terms of who I am and how I operate via a series of sound-bites it would be this:

- Enthusiastic, good humoured, motivated, focused and passionate; seizing opportunity decisively and with a strongly entrepreneurial approach
- Highly articulate in both written and spoken English and bi-lingual (French) with a highly developed multi-cultural and interdisciplinary perspective
- Rigorously across detail and forensic attention to detail with both big picture and marginal gains approach leading to high-level organizational success
- Collegiate, pastoral, motivating, inclusive; willing to help others and with strong empathy
- Robust and professional under difficult circumstances; convincing and persuasive
- Ability to build, organise and deliver capacity across multiple endeavours
- Curious, strategic, agile, reflective and action oriented but with an open minded approach with willingness to support novel and visionary ideas
- Demonstrated excellence in research leadership and strongly collaborative
- Base positive character of honesty, integrity and generosity
- Comfortable and respectful in all environments and at every level from chatting with the cleaner to chairing executive meetings and hosting international delegations
- Highly international in outlook and experience and highly evidence based in approach and implementation

Some of this evidence is elucidated below but can be expanded in more detail in a full portfolio. This should demonstrate clearly my credentials, aptitude and capacity to fulfill a senior role

Current Position

Associate Dean (Global), Faculty of Science, Hong Kong University;
Director, Laboratory for Space Research; member academic senate

Academic Qualifications

BSc (Honours), 1982; PhD 1986, St. Andrews University, UK

Employment history & Current employment

Higher/Senior Scientific Officer	Royal Observatory Edinburgh	1986-1992; 1996-2002
Astronomer/Senior Astronomer	Anglo-Australian Observatory	1992-1995; 1996-1999*
Lecturer/Senior Lecturer	Macquarie University/AAO	2002-2003; 2004-2006
Associate Professor	Macquarie University/AAO	2007-2009
Professor/Director MQAASAstro#	Macquarie University/AAO	2010-2015
Professor/HoD Physics	The University of Hong Kong	2015-2016
Professor/Assoc.Dean (global)	The University of Hong Kong	2017-

* (on special leave from the Royal Observatory Edinburgh in a parallel appointment)

MQAAAstro: The Macquarie Research centre in Astronomy, Astrophysics and Astrophotonics

Main areas of disciplinary/sub-disciplinary and interdisciplinary research expertise

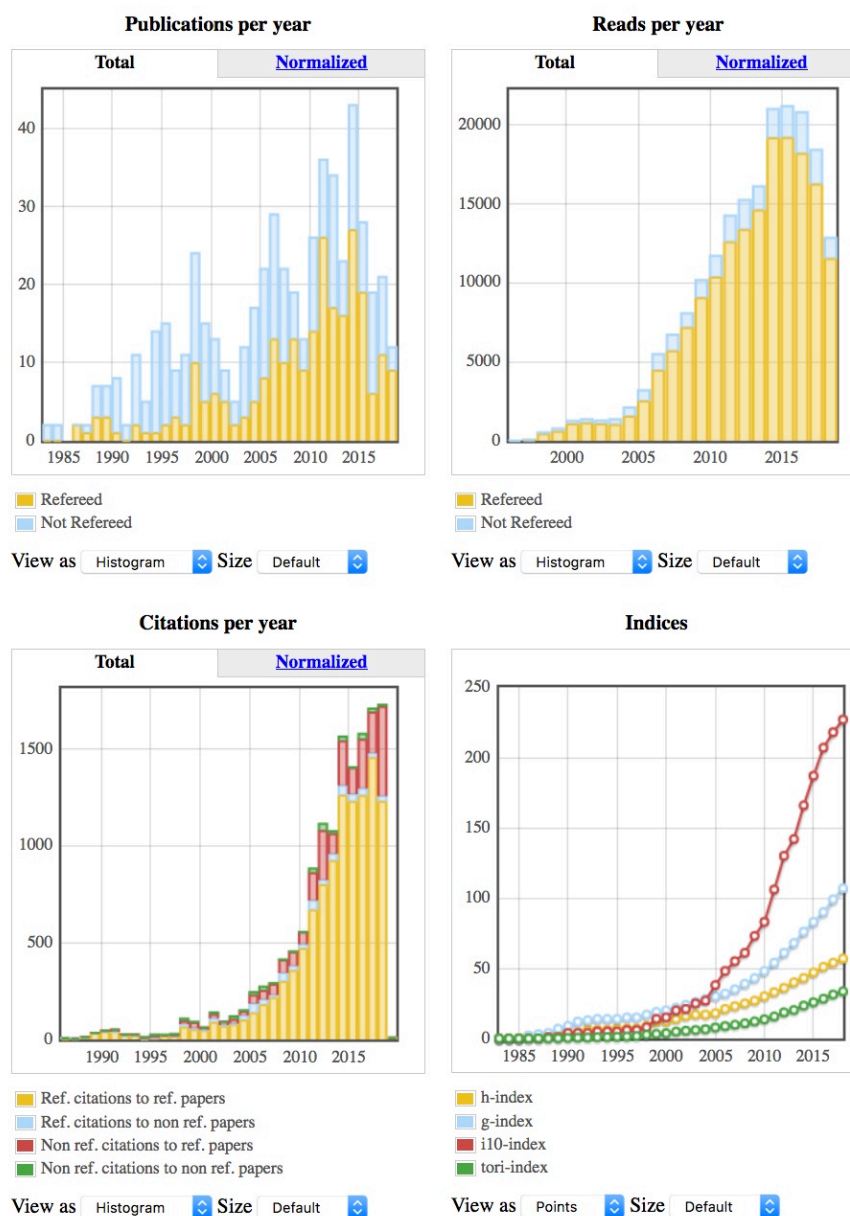
Wide-field, multi-wavelength astronomical surveys, Planetary Nebulae and late stage stellar evolution, Space Science, Supernova remnants, Galactic archaeology, low-surface brightness galaxies, galaxy redshift surveys, Astronomical instrumentation particularly narrow-band filters, multi-object fibre-based spectroscopy systems and integral field units, science education and pedagogy (high school and tertiary), Chinese bronze antiquities and interdisciplinary studies.

Eight-year research grant track record has total value: ~51M\$ HKD (~\$8.87M AUD) in astronomical instrumentation, astrophysics research and science education

UGC T&L (HK):	2017-2020	CIs Parker, Knothe, Lee, \$3.314M HKD
RGC (HK) 17304018:	2018-2021	CIs Parker, Zijlstra, Gesicki, \$520K HKD
RGC (HK) 17300417:	2017-2020	CIs Parker, Zijlstra, Frew \$520K HKD
RGC (HK) 17326116:	2016-2018	CIs Parker, Frew, Bojicic \$540K HKD
PDF award (HKU):	2016-2020	CIs Parker, Kwok and Wu \$1M HKD
PDF award (HKU):	2017-2021	CIs Lee, Parker, Knothe \$1M HKD
ARC LEI40100052:	2014	CIs Colless, + Parker et al. \$350K HKD
OLT Teaching grant:	2013-2016	CIs Mulligan, Parker, Hedberg, Cody \$15M HKD
MQAAAstro centre:	2011-2015	CI Parker, \$1.85M HKD
Guttenberg Chair:	2013	CI Parker \$650K HKD (Strasbourg, France)
ARC LE130100198:	2013	CIs B-Hawthorn, Croom, Parker+ \$2M HKD
ARC DP120103751:	2012-2014	CIs Ireland, Parker, Bedding \$2.13M HKD
ARC DP120104416:	2012-2013	CIs Freeman, Parker, B-Hawthorn \$1.7M HKD
ARC LE120100023:	2012	CIs Bessell, Dopita, Parker et al \$1.1M HKD
ARC LE110100030:	2011-2012	CIs Parker et al. ARC + MQ/AAO for \$4.8M HKD
ARC FS100100019:	2010-2013	CIs Parker et al. ARC + MQ/AAO for 3.1M HKD
ARC LP0989264:	2009-2011	CIs Parker et al. \$677K cash, \$9.6M HKD in kind
NASA ROSES/Spitzer:	2008-2010	CIs Cohen, Parker, Hora, Green \$1.8M HKD
MQSN/MQRDG:	2008-2010	CI Parker \$384K HKD

Five-year Research Publication Track Record

In the last 5 years I have 81 refereed journal articles and am 1st, 2nd or 3rd author for 16 of these (NASA ADS abstract service http://adsabs.harvard.edu/abstract_service.html). My total publications comprise 539 papers, articles and circulars with 254 in referred journals and >14335 citations (40% increase in 3 years) with an 'h' index of 57 as shown graphically below (results for October 10th 2018). Google scholar gives me a h-index of 62 and >16000 cites.



Research supervision and management

I am supervising 4 Post Doctoral Fellows and 4 PhD students (including one at MQ). Since 2005, as primary supervisor I have had 11 PhD, 3 Masters and 6 honours student completions (100% graduation success) with many more as adjunct/associate supervisor. I am leading and managing the Laboratory for Space Research (LSR) where we are currently undergoing expansion. We have recently signed several important MoUs (e.g. with Nanjing, Padova-CISAS) and are engaging in key satellite programs (DAMPE and HKU No.1 satellite).

Teaching Metrics: Evidence of sustained contributions to student learning over time

Awarded several university and national teaching awards at both undergraduate and postgraduate level at Macquarie University. This was partially due to consistently very high scores from Teaching Evaluation and Development Scheme (TEDS) over the last 10 years. This is continuing at HKU where my scores for teacher effectiveness in 2016/17 was 86/100 (c.f. average for the Physics department of 72). This clearly testifies to high-level, consistent and on-going teaching achievement as perceived by the students themselves. A few recent feedback comments from HKU students include: “What a wonderful, engaging, interesting and inspiring teacher”; “very captivating teaching - can get the attention of the students very quickly”; “Really captivating and interesting lectures”, *my HKU SCNC1113 students (2016)*.

Fellow of learned academies or societies

- Fellow of the Royal Astronomical Society (1988 -)
- Fellow of the Astronomical Society of Australia (1994 -)
- Member of the International Astronomical Union (1995 -)
- Member of the Oriental Ceramics Society of Hong Kong (2015 -)

Invited keynote/plenary/review speaker at international conferences and workshops

Since 2010 attended 18 major conferences/workshops with 13 as invited reviewer/speaker

- Invited review at Asymmetric PN IV conference in UK, June 2010.
- Contributed speaker international Supernova conference, Sydney, June 2011
- Invited review speaker IAU Symposium 283 on Planetary Nebulae, Tenerife, July 2011
- Review speaker Late phases of stellar evolution, Macquarie, December 2011, SOC chair
- Contributing speaker APN VI, Mexico, November 2013 and member SOC
- Contributing speaker ASA Sydney, July 2014 (and SOC chair and LOC chair)
- Invited speaker EGAPS meeting, Graz Austria, September 2015
- Invited speaker 11th Pacific Rim Conference, December 2015, Hong Kong
- Invited speaker WorkPlans PN meeting, Lorentz Centre, Leiden, Holland, January 2016
- Invited speaker 18th and 19th PHSK meetings, Poly U. 2015, HKU 2016
- Contributing speaker (as on SOC) of IAU Symposium 323, Beijing October 2016
- Invited speaker, KAVLI 10th Anniversary meeting, Beijing, May 2017
- Invited speaker, Belt and Road forum of Hangzhou, Hong Kong, August 22nd 2017
- Invited speaker, “with one had waving free”, Port Douglas, Australia, October 2017
- Contributing speaker (as co-chair of SOC), “APNVII”, Hong Kong, Dec 2017
- Invited honorary speaker, Lobster eye telescope meeting, Shenzhen, January 2018
- Invited speaker, PHSK, Macau, Guangzhou Physics societies meeting, Macau, July 2018

Peer reviewed facility access won 2010-2018 – total access costs value \$22M HKD

- | | | |
|------------------------|---|------------|
| • 10 nights 6-10m time | Magellan, Gemini, Grantecan & ESO VLT | \$5.6M HKD |
| • 16 nights 4m time | CTIO & AAT | \$2.9K HKD |
| • 162 nights 2m time | ANU 2.3m & SAAO 1.9m telescopes | \$9.8M HKD |
| • 205 hours radio | Australia Telescope Compact Array | \$600K HKD |
| • 70+ hours | Hubble and Herschel space telescopes | \$3.0M HKD |
| • 3 hours | Directors Discretionary time SALT 10m | \$100K HKD |

Professional Prizes and Awards for research, teaching and leadership (\$4.55M HKD)

- MQ Divisional award for excellence in undergraduate teaching 2007 \$180K
- MQ Vice Chancellors award for excellence in PhD supervision 2008 \$180K
- MQ Highly commended for University Innovations in Learning and Teaching 2009
- MQ Shortlisted for University Innovations Award in Research & Engineering 2010
- MQ Recipient of University Innovations awards for Excellence in Research 2011 \$120K
- Australian “ALTC” citation for excellence in undergraduate Learning 2011 \$360K
- MQ Vice Chancellors award for excellence in undergraduate Teaching 2012 \$360K
- ***Prestigious Gutenberg Professorial Chair, Strasbourg, France 2013 \$3.2M***
- MQ University “Jim Piper” award for excellence in Research Leadership 2014 \$120K
- HKU Sino-British fellowship 2018 \$25K

Current/recent senior responsibilities (including financial management & advising)

- Associate Dean (Global) Faculty of Science, HKU (2017 -)
- Director, Laboratory for Space Research, HKU (2018 -) – was associate Director prior
- Member of HKU Academic Senate (2016 -)
- Chair HKU Science faculty committee on global development & engagement (2017 -)
- Chair HKU Disciplinary Committee (2018 -)
- Member HKU rankings committee (2017 -)
- Member HKU Vice President’s (Global) committee (2017-)
- Member HKU disciplinary committee (2015 -)
- Member Faculty Teaching and Learning Quality Committee (2016 -)
- International member of South African Telescopes User committee (2015 -)
- Head of Hong-Kong/AAO/Strasbourg H α Planetary Nebulae project: HASH (2015 -)
- Head of the Department of Physics, HKU (2015-2016)
- Head of data management group of international Radial Velocity Experiment (RAVE)
- Head of the IPHAS Planetary Nebulae Team (20 researchers in 5 countries)
- External PhD examiner (e.g. Manchester University, UK 2010, 2011, Bristol, Marseille)
- Regular referee of papers in top astronomy journals (e.g. MNRAS, ApJ, A&A, AJ)
- Member of executive committee of the Physical Society of Hong Kong (2015 - 2017)
- CI for KOALA Integral field unit instrument at the AAO (2011 – 2015)
- Member of Macquarie University Teaching Excellence Academy – 2012-2015
- Member of 6DF Science Advisory Committee 2002 - 2015
- Technical assessor for time on Anglo-Australian Telescope 2002 – 2015
- ARC international reader and laureate, DP and linkage assessor (2004 – 2015)
- Director of MQAAAstro research centre and chair of executive board (2011- 2015)
- Member Macquarie University research centre assessment panel (2012 – 2015)
- Director of \$2.4M ARC linkage science pedagogy project “Space to Grow” (2009-2014)

External benchmarking of standing

- I am currently ranked 37th of all HKU researchers according to Google Scholar out of 3493 academics. This places me in the top 1.1% at a top 30 global university (QS and THE rankings 2018).