Acknowledgement of Traditional Owners

The QUT School of Optometry and Vision Science acknowledges the Turrbal and Yugara, as the First Nations owners of the lands where QUT now stands. We pay respect to their Elders, lores, customs and creation spirits. We recognise that these lands have always been places of teaching, research and learning.
<table>
<thead>
<tr>
<th>Category</th>
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<td>Awards and Promotions</td>
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<td>Staff</td>
<td>67</td>
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<td>Supporters</td>
<td>70</td>
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Message from Head of School

PROFESSOR SHARON BENTLEY

The year we planned to promote the need for good ‘20/20’ vision and optometry’s important role in eye health, the year 2020, had finally arrived. We never expected to be upstaged by a global pandemic that would propel us almost instantly into an entirely online mode of teaching and distanced way of being. While there were many lows, there were again, many successes.

First, I would like to acknowledge the extraordinary efforts and commitment of the staff in developing and delivering online learning opportunities. Additionally, for their flexibility and determination in devising
countless iterations of the timetable to maintain in-person clinical skills learning and the operation of our clinic, when permitted. The invaluable experience gained by students in our own clinic could not happen without the support of our highly skilled and dedicated clinical supervisors. We were also indebted to the many optometry and ophthalmology partner practices who were able to continue to support students with work integrated learning placements. Finally, I would like to acknowledge the students and their tremendous efforts to meet the required competencies, as well as their support of each other through unprecedented times. Everyone simply got on with the job and, remarkably, students completed the year on time.

In the teaching program, we continued with our commitment to implement the Optometry Council of Australia and New Zealand Aboriginal and Torres Islander Health Curriculum Framework. Dr Kristopher Rallah-Baker accepted appointment to the position of Adjunct Associate Professor in the School. Kris is a Yuggera and Biri-Gubba-Juru/Yuggera man, Australia’s first Indigenous ophthalmologist, previous President of the Australian Indigenous Doctors Association, and holds numerous other important committee positions and directorships. He currently practises at Sunshine Coast Ophthalmologists at Noosa, Ramsay Private Hospital Noosa and is a Visiting Medical Officer at the Sunshine Coast University Hospital. Kris will be advising and assisting us with the development and delivery of continuous improvements in our cultural safety and Indigenous perspectives curricula, co-supervising a higher degree research student and hosting our Master of Optometry students on clinical placement. We are particularly interested in understanding the eye health needs of children who are Indigenous and just recently, I was fortunate enough to join four members of academic staff who examined and collected data from over 250 Aboriginal and Torres Strait Islander children in the Bamaga region, Cape York Peninsula.
This project was made possible through a QUT Health Law grant and collaboration with Professor John Scott. Instrumental in the organisation and success of the project was Tanya Mendes (Guidance Officer, Northern Peninsula Area State College). Additional funding support was provided through CheckUP, accommodation was provided through Bamaga Enterprises Ltd and spectacles for the children were provided by OneSight. A highlight was purchasing artwork by local artist, Vincent Babia, for our School boardroom.

THE TEAM CONDUCTING EYE EXAMINATIONS IN THE BAMAGA REGION, FROM LEFT TO RIGHT, JOANNE WOOD, TANYA MENDES (GUIDANCE OFFICER, NORTHERN PENINSULA AREA STATE COLLEGE), SHELLEY HOPKINS, SCOTT READ AND ALEX BLACK.
FROM LEFT TO RIGHT, SHELLEY HOPKINS, JOANNE WOOD, ALEX BLACK AND SCOTT READ, WITH ARTIST VINCENT BABIA. VINCENT STANDS NEXT TO HIS ARTWORK, ‘MUTTEE HEADS 2019, VINYL-CUT RELIEF ON PAPER’, PURCHASED FOR THE QUT SCHOOL OF OPTOMETRY AND VISION SCIENCE BOARDROOM. THE ART DEPICTS THE STORY OF A VOLUNTARY MASS MIGRATION OF A COMMUNITY FROM SABAÏ ISLAND IN THE TORRES STRAIT TO CAPE YORK. VINCENT BABIA IS A DESCENDANT OF THE AIT KODAL (CROCODILE CLAN) AND SAMU (CASSOWARY CLAN) FROM SABAÏ ISLAND AND HIS FAMILY IS ONE OF MANY THAT RELOCATED FROM SABAÏ TO MAINLAND AUSTRALIA IN THE 1940S AND 50S. HE IS A HIGHLY REGARDED SCULPTOR OF CEREMONIAL MASKS, CANOES AND DRUMS WITH WORKS REPRESENTED IN THE NATIONAL GALLERY OF AUSTRALIA.
During 2020, our track record of high-quality research was recognised by QUT establishing our ‘Centre for Vision and Eye Research’. In addition, the QUT School of Optometry and Vision Science featured extremely strongly in a recently released publication of the most impactful optometry researchers in the world (Efron et al. Clin Exp Optom, 2021; https://optomrankings.com), with twelve optometrist academics from our School among the top 200. Furthermore, QUT is currently ranked as the third most impactful optometry school globally (out of 270 optometry schools).

All of this speaks to the tenacity, resilience, integrity and capability of the team of academics, researchers, students and support staff of the QUT School of Optometry and Vision Science. I am honoured to work with them and I am certain we will continue to achieve our vision of ‘Transforming how the world sees through education and research.’
Academic Staff

Lecturer  Dr Prakash Adhikar

Professor  David Atchison

Professor  Sharon Bentley
(Head of School; Academic Lead Education)

Senior Lecturer  Dr Alex Black

Senior Lecturer  Dr Andrew Carkeet
(Academic Lead Postgraduate Research)

Professor  Michael Collins

Senior Lecturer  Dr Katie Edwards
(School Research Ethics Advisor)
Lecturer Dr Shelley Hopkins (Academic Lead Indigenous Health)

Lecturer Dr Emily Pieterse

Associate Professor Scott Read (Academic Lead Research)

Associate Professor Katrina Schmid (Academic Lead International; Course Coordinator Bachelor of Vision Science)

Associate Professor Stephen Vincent (Course Coordinator Master of Optometry)

Professor Joanne Wood

Professor Andrew J. Zele
Adjunct Academic Staff and Visiting Fellows

Emeritus Professor Ken Bowman AM
Emeritus Professor Leo Carney DSc (QUT)
Emeritus Professor Nathan Efron AC
Dr Kate Gifford (QUT Young Alumnus of the Year 2017)

Dr Julie Albeitz
Teaching and Learning Highlights

The QUT School of Optometry and Vision Science offers the only Optometry program in Queensland. It is a five-year program comprising the Bachelor of Vision Science followed by the Master of Optometry leading to registration as an Optometrist in Australia.

ASSOCIATE PROFESSOR KRIS RALLAH-BAKER LECTURING TO MASTER OF OPTOMETRY STUDENTS ON CULTURAL SAFETY.
In 2020 we made substantial advances in digital learning, accelerated by the impact of the COVID-19 pandemic. For most of the year, non-clinical learning activities and assessments were delivered online; even practical class demonstrations being video-recorded to enhance learning.

Fortunately, with the need for fewer restrictions in Brisbane, we were able to maintain face to face clinical teaching, supplemented with online case-based learning, to ensure our students graduated on time. We were extremely grateful to our many partner optometry and ophthalmology practices who continued to provide enriching placement opportunities to our students when permitted.

Many more of those practice placement opportunities in 2020 were rural, delivering both invaluable academic lessons and life lessons to students. Just prior to COVID-19 restrictions, Adjunct Associate Professor Kris Rallah-Baker delivered a powerful lecture on racism and cultural safety. Seventy students graduated from the Bachelor of Vision Science course and 48 graduated from the Master of Optometry course.
Bachelor of Vision Science Graduates

Fong, Huiy
Lim, Shi Ying
Lin, Shu Chi
Nguyen, Caroline
Ojha, Govinda
Ooi, Peng Jia
Pham, Ngoc-Anh
Shim, Dianne
Teo, Li Mei
Truong, Mandy
Zhou, Wei Liang
Anderson, Julia
Atkinson, Jamie
Bakshi, Jai
Bliss, Vyasa
Branjerdporn, Nathan
Bulow, Zack
Chaki, Hanna
Chin, Garson
Chu, Ray
Cunningham, Alice
Dai, Rebecca
Daly, Cody
Devereaux, James
Duong, Jennifer
Gondo, Katsuhiko
Gunning, Emily
Ha, Matthew
Hong, Jenny
Huynh, Thien
Huynh, Trang
Ibrahim, Ahmed

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<td>Kathirgamanathan, Ashvika</td>
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<td>Phan, Hang-My</td>
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<td>Seddon, Annabelle</td>
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<td>Xiang, Theresa</td>
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QUT MEDALLIST
GPA: 7.00
Master of Optometry Graduates

Bui, Thanh
Dang, Jamie
Do, Dalena
Hsieh, Yi-Chun
Kuo, Yi-Tse
Le, Steven
Lin, Tzu-Ching
Robertson, Roderick
Sorefan, Ahmad Ismael
Tran, Anita
Wang, Yu-Ju
Xu, Yan
WINNERS OF THE MASTER OF OPTOMETRY STUDENT RESEARCH PROJECT PRESENTATION AWARD (SPONSORED BY OPTOMETRY QUEENSLAND AND NORTHERN TERRITORY [OQNT]): ‘EFFECT OF WINDOW TINTS ON NIGHT-TIME VISIBILITY’. FROM LEFT TO RIGHT: HANNAH LIGHTFOOT, DR ALEX BLACK (CO-SUPERVISOR), SANET DE VILLIERS, AMELIA GORLE, NATASHA WESTCOTT, MELINDA TOOMEY (PRESIDENT, OQNT), PROFESSOR JOANNE WOOD (CO-SUPERVISOR), CATHRYN BAKER (CEO, OQNT).
As part of the Master of Optometry program, all students undertake a 12-month research project. The following projects were led by the following academic staff members:

**Prakash Adhikari: Validating a combined visual acuity and contrast sensitivity test**
Students: Megan Ko, Anita Nguyen, Daniella Pham, Phylicia Suhartono, Chau Tran

**David Atchison: Impact of racial background on near-work induced transient myopia (NITM)**
Students: Yingxiang Cheng, Jeongmin Lee, Jiawen Liu, Teah Lotter, Xiaoxue Pei

**Alex Black: Effect of window tints on night-time visibility**
Students: Sanet de Villiers, Amelia Gorle, Hannah Lightfoot, Natasha Westcott

**Andrew Carkeet: Diurnal variation in ocular blood flow: Differences between myopes and non-myopes**
Students: Cong Bui, Josh Fiedler, Steven Ho, Daniel Tang, Binh Tran

**Michael Collins: Short term changes in ocular surface autofluorescence**
Students: Jordan Collins, An Nguyen, Tien Pham, Corey Whyte

**Katie Edwards: UV exposure and anterior eye damage: corneal and inflammatory markers**
Students: Lauren Beecher, Celina Spena, Johannes Van Ling, Andrea Wan

**Shelley Hopkins: Effect of induced astigmatism on screen and paper-based reading tasks**
Students: Elle Carson, Abby Heffernan, Alix Knight, Savi Nguyen, Sholeen Sanjika
Emily Pieterse: Response of accommodation and vergence systems to low dose atropine
Students: Mike Hong, Sean Lee, Stephen Pham, Marco Ting, David Vu

Scott Read: The interaction between ON and OFF retinal cell activation and blur adaptation
Students: Faaizah Ali, Zhi Yu Chan, Jade Chng, Nitansha Nand

Katrina Schmid: Ocular adnexa: The effect of past UV exposure
Students: Isabella Edwards-Brown, Jamie Siew Wen Gan, Jenny Lopez, Hui Qi Faith Ng, Leilah Small

Stephen Vincent: Controlling spherical aberration in scleral lens wear
Students: Jasmine Chiem, Sayo Kokubun, Nhi Nguyen, Wendy Nguyen

Joanne Wood: Night-time hazard perception and blur
Students: Kieran Harduwar, Sindhu Jayaram, Kristin Parker, Carly Roderick, Rachel Roderick
Student Awards

Presented at the Faculty of Health Awards Ceremony.

- Optometry Queensland and Northern Territory Academic Highest Achievement in First Year BVisSc Award – Nathan Lau

- Optometry Queensland and Northern Territory Highest Academic and Clinical Achievement in MOptom Award – Lachlan Munro

LACHLAN MUNRO WITH CATHRYN BAKER, CEO OPTOMETRY QUEENSLAND AND NORTHERN TERRITORY.
School of Optometry and Vision Science Brian Brown Research Award (MOptom student with the highest combined GPA in the units ‘Research Methods in Optometry and Vision Science’ and ‘Research Project’) – Lauren Beecher

mivision Media Communication Award (BVisSc student in the unit ‘Binocular Vision’ who designs the most innovative and engaging media communication tool that can be used in Optometry Practice) – Nathan Banjerdporn

LAUREN BEECHER WITH PROFESSOR SHARON BENTLEY (HEAD, SCHOOL OF OPTOMETRY AND VISION SCIENCE).

NATHAN BANJERDPORN WITH PROFESSOR SHARON BENTLEY (HEAD, SCHOOL OF OPTOMETRY AND VISION SCIENCE).
• CooperVision Australia Contact Lens Prize (MOptom student with highest achievement in first year contact lens studies) – Wendy Nguyen

• Johnson & Johnson Vision Care Award (MOptom student with highest achievement in second year contact lens studies) – Cassandra-Elyse Versteeg

WENDY NGUYEN WITH PROFESSOR SHARON BENTLEY (HEAD, SCHOOL OF OPTOMETRY AND VISION SCIENCE).

CASSY VERSTEEG WITH SHILA ROSHANI (JOHNSON & JOHNSON VISION CARE).
• Institute for Urban Indigenous Health and Fred Hollows Foundation Workforce Initiative Scholarship – Renata Gordon

• Australian College of Optometry 2019 Award (outstanding achievement in the BVisSc and MOptom program QUT) – Lachlan Munro

• Optometry Australia Student Leadership Program – Lachlan Munro and Briana Tsang

(TOP LEFT) RENATA GORDON, STUDENT

(TOP RIGHT) LACHLAN MUNRO, STUDENT

QUT STUDENTS LACHLAN MUNRO (TOP ROW, SECOND FROM LEFT) AND BRIANA TSANG (FRONT ROW, FOURTH FROM RIGHT) TAKING PART IN THE 2020 OPTOMETRY AUSTRALIA LEADERSHIP PROGRAM WITH OTHER STUDENTS AND LEADERS IN THE PROFESSION.
Student Clinic Highlights

2020 was a challenging year at the QUT Optometry Clinic due to COVID-19. As a result, the clinic closed between March to June, with a significant impact on services and student learning opportunities. Upon re-opening, the clinic implemented additional infection and control protocols to align with government and university guidelines.

Telehealth services were developed to manage non-urgent patient consultations. When restrictions were lifted, student and staff timetabling was re-adjusted to slowly increase clinic capacity while maintaining social distancing.

QUT OPTOMETRY STUDENT MICHELLE LEE COMPLETING THE HEALTH DEPARTMENT’S COVID-19 ONLINE INFECTION CONTROL CERTIFICATE.
The optometry clinic collaborated with the RBWH Ophthalmology clinic in developing a referral pathway for glaucoma patients who have been discharged from the hospital as being low-risk or glaucoma suspect. These patients are booked into the student glaucoma clinic along with their detailed referral from RBWH. Following the consultation, reports are completed and sent back to RBWH.

Computers were installed in 15 consultation rooms, which allowed students to fully transition to using electronic records. New equipment for the Optometry clinic was purchased, including an Oculus Myopia Master, Topcon slit lamps and various tonometers.

Most of the outreach services were postponed or cancelled; however, 10 visits to North Coast and Cherbourg were completed throughout the year, as well as two days of QHC Back to School screening in January and a day of vision screening at Act for Kids in November.

There were 11 Optometry related research projects conducted through the QUT Optometry Clinic in 2020.
Research Highlights

Our research focuses on technological advances in the treatment and management of vision problems, the diagnosis and assessment of eye and vision disorders, and the functional impacts of vision impairment.

This year more than 73 articles were published in scholarly journals, 11 presentations at conferences were delivered and substantial research funding was awarded.
OUR OUTPUT

Our research publications have been increasing over the past six years.

FIGURE: NUMBER OF PUBLICATIONS BY AUTHORS IN THE SCHOOL OF OPTOMETRY AND VISION SCIENCE, 2015-2020, AS CALCULATED IN SCIVAL; BASED ON SCOPUS DATA UP TO 07 APRIL 2021.

OUR IMPACT

Field-Weighted Citation Impact (FWCI) is a measure of research impact. A FWCI of one indicates that the number of citations for a paper equals the global average of publications in the field of Optometry and Vision Science. The FWCI for papers from the School of Optometry and Vision Science is 1.70, which indicates that its publications are cited 70% more often than the global average in the field.

OUR COLLABORATIONS
We collaborate with researchers from across the world.

FIGURE: MAP OF COLLABORATING INSTITUTIONS, AS CALCULATED IN SCIVAL. THE MAP WAS PRODUCED IN GOOGLE MYMAPS BASED ON SCOPUS DATA UP TO 15 APRIL 2021.

OUR REACH: NUMBER OF CITING COUNTRIES
Using the 409 Scopus publications (2015-2020), the number of citing countries identified is 81.

FIGURE: TOP TEN CITING COUNTRIES 2015-2020, CALCULATED IN SCOPUS UP TO 15 APRIL 2021.
Our Research Strengths

- Myopia and its prevention and control
- Contact lenses
- Optics of the eye and imaging
- Advanced methods for imaging the eye
- Anterior eye assessment and treatment
- Novel methods for the early detection and management of eye disease
- Melanopsin photoreception and visual science
- Ocular biomarkers of systemic disease
- Vision and everyday function
- Vision and driving
- Indigenous eye health
- Children’s vision
Optics of the Eye and Imaging

Investigations continued with peripheral aberrations, the Stiles-Crawford effect and biometry changes in accommodation. The first images of the human retina with our holographic setup were obtained – this is already producing images with comparable resolution to that obtained with adaptive optics corrected optical coherence tomography. Notches were found in the peripheral contrast sensitivity function with defocus – these have only been reported previously for central vision.

(TOP) THE OPTICAL SOCIETY QUT OSA STUDENT CHAPTER.

(BOTTOM) DR STAS ZACHAROVAS TAKING A RETINAL HOLOGRAPHIC IMAGE OF HIS OWN EYE.
Contact Lenses and Visual Optics

The Contact Lens and Visual Optics laboratory had a successful year in 2020, despite the challenges of the pandemic. Thirty-five refereed papers were published by members of the laboratory, along with numerous editorials and conference presentations. Two of our HDR students, Hamed Niyazmand and Rohan Hughes, were awarded their PhDs. Hamed for his thesis titled “Ocular changes associated with accommodation and convergence” and Rohan for his thesis, “Optics of the eye and refractive error development”.

In January, we hosted 27 high school students from the National Youth Science Forum (NYSF), and 19 secondary school teachers from the National Science Teachers Summer School (NSTSS). This was the third consecutive year that QUT’s CLVOL has been a host site delivering science programs for students and teachers visiting from all areas of Australia. Staff from the laboratory prepared six interactive hands-on learning workstations for the visiting students and teachers that included learning activities about: eye movement tracking, the wavelength of light, thermal imaging of the eye, colour vision, binocular vision/stereoacuity, contact lenses, anatomy of the eye and machine learning.
Two of our PhD students, Damien Fisher and Swee Chai Teoh, were awarded associate and full fellowship (respectively) of Advanced Higher Education (previously known as the Higher Education Academy). They are both experienced educators and committed to providing the highest quality learning experiences for their students.
In 2020, the research team, led by Professor Joanne Wood and Dr Alex Black, continued to work on a range of government, industry and university-funded projects, delivered presentations at a range of national and international conferences (largely online) and had 20 papers published or accepted on topics including visual impairment and driving, night-time driving and children’s vision. The team also continued to develop their international profile in a range of areas including nighttime driving and road lighting (collaboration with Prof Stephan Volker, TU Berlin, Germany), pedestrian and cycling safety at night (collaboration with Prof Fiona Fylan, Brainbox UK), and vision and falls safety (vision and falls guidelines for the UK, EU and Australia, collaboration with Prof David Elliott, Bradford, UK). The team also welcomed 3 new PhD students working across a range of research areas. The ongoing focus of research...
continues to be on the specific visual challenges of night driving and developing solutions to improve the safety of night-time driving, walking and cycling.

ANTERIOR EYE

Through 2020, the Anterior Eye Laboratory, under the leadership of Katie Edwards, have continued research into cellular level changes at the ocular surface, in both ocular and systemic disease, using in-vivo confocal microscopy. Despite the challenges of 2020, PhD student Ilya Zahari had some work from her PhD “Effects of chemotherapy on the ocular surface and its relationship to peripheral neuropathy”, published in the 2020 ARVO Annual Meeting proceedings. In 2020, researchers at the Anterior Eye Lab also developed a novel area of research looking at immune cell dynamics at the ocular surface which will be further explored as a Master of Optometry student project in 2021.
In July the lab was awarded $100,000 from Queensland University of Technology Strategic Major Equipment Purchase Grant Scheme for the purchase of a Heidelberg Engineering Confocal Microscope HRT3 Platform with Rostock Corneal module. This will support them in their future research in high magnification imaging of the anterior eye at QUT and through their ongoing collaborations with researchers at University of New South Wales, Griffith University and the University of Queensland.

MELANOPSIN PHOTORECEPTION AND VISUAL SCIENCE

The Melanopsin Photoreception and Visual Science research group is a leading international laboratory focussed on understanding the image and non-image forming functions of melanopsin expressing ipRGCs (intrinsically photosensitive Retinal Ganglion Cells).

During the past year, research outcomes included determination of the role of melanopsin and rhodopsin signalling for representing scene brightness, characterisation of the performance limits of wrist-worn light sensors (autographs) when monitoring absolute ambient illumination levels and a study that unmasked the retinogeniculate substrates for the functional field of view. In a clinical collaboration with the Medical Retina Research Group (Head: A/Professor Beatrix Feigl, School of Biomedical Sciences and Queensland Eye Institute) we identified a mechanism through which inner retinal ipRGC dysfunction contributes to sleep disruption in neurodegenerative disease.

ARC Future Fellow, Professor Andrew J. Zele co-edited an eBook titled “The Pupil: Behaviour, Anatomy, Physiology and Clinical Biomarkers” that brought together the latest research from 110 experts across 17 countries (doi: 10.3389/978-2-88963-756-0). He is a member of the Australian Research Council (ARC) Medical Research Advisory Group and of the
Human Centric Lighting working group of the Lighting Council of Australia.

Dr Prakash Adhikari (Lecturer) reached an academic milestone with his successful co-supervision to completion of his first PhD graduates. In total, five Higher Degree Research students submitted their dissertations for examination during 2020 (3 PhD, 2 MPhil). A Doctor of Philosophy has since been awarded to Ashim Dey and Sunila Dumpala (Co-supervisors: Beatrix Feigl and Andrew J. Zele). Three graduate theses are currently under examination.

A major research highlight was the award of the largest new grant in 2020 to the Centre for Vision and Eye Research; the Michael J Fox Foundation for Parkinson’s Research is funding a three-year, phase 2 double-blind clinical trial to study the effects of QUT developed lighting technology (Andrew J. Zele, Beatrix Feigl, Drew D. Carter) on sleep, circadian and motor function that is led by Principal Investigator A/Professor Beatrix Feigl.
Research Visitors

FROM LEFT TO RIGHT: DOMINKA SULOT, MICHAEL COLLINS, DAVID ALONSO-CANEIRO, MARCELA NIEMCZYK. DOMINKA AND MARCELA ARE PHD STUDENTS FROM WROCŁAW UNIVERSITY OF SCIENCE AND TECHNOLOGY IN POLAND, WHO WERE AWARDED A SCIENTIFIC INTERNSHIP GRANT TO SPEND THREE MONTHS IN THE CONTACT LENS AND VISUAL OPTICS LABORATORY WITH THEIR ASSOCIATE SUPERVISOR, DR DAVID ALONSO-CANEIRO.

SHYAM SUNDER TUMMANAPALLI, PHD CANDIDATE, SCHOOL OF OPTOMETRY AND VISION SCIENCE, UNIVERSITY OF NEW SOUTH WALES, AUSTRALIA.

DR GARETH LINGHAM, HONORARY RESEARCH FELLOW, CENTRE FOR OPHTHALMOLOGY AND VISUAL SCIENCE, UNIVERSITY OF WESTERN AUSTRALIA.
Grants

**NAMES** Anstey K, Wood JM, Delbaere K, Bedard M, Brown K, Lung C.
**TITLE** Driving longer and better: Evidence-based interventions for older drivers
**FUNDING SOURCE** NHMRC
**DURATION OF FUNDING** 2019-2023
**TOTAL FUNDS** $918,549

**NAMES** Atchison DA, Lambert A, Suheimat M.
**TITLE** Relationship of retinal directionality to human retinal anatomy variations
**FUNDING SOURCE** ARC Discovery Project (DP190103069)
**DURATION OF FUNDING** 2019-2021
**TOTAL FUNDS** $425,000
**NAMES** Bentley S, Hughes R.
**TITLE** Prescription of oral medication by optometrists
**FUNDING SOURCE** Optometry Australia
**DURATION OF FUNDING** 2020-2021
**TOTAL FUNDS** $4,000

**NAMES** Chang J, Alonso-Caneiro D, Mackey D.
**TITLE** Applying machine learning to efficiently analyse fundus autofluorescence images in preparation for gene therapy
**FUNDING SOURCE** Ophthalmic Research Institute of Australia
**DURATION OF FUNDING** 2020-2021
**TOTAL FUNDS** $47,800

**NAME** Collins MJ.
**TITLE** CR-6406 Clinical trial
**FUNDING SOURCE** Commercial - Johnson and Johnson Vision Care (USA)
**DURATION OF FUNDING** 2020-2021
**TOTAL FUNDS** $238,943

**NAME** Collins MJ.
**TITLE** Steele project
**FUNDING SOURCE** Commercial - Johnson and Johnson Surgical Vision (USA)
**DURATION OF FUNDING** 2020-2021
**TOTAL FUNDS** $97,974

**NAMES** Collins MJ, Yi F, Davis B.
**TITLE** Myopia visual optics
**FUNDING SOURCE** Commercial - Johnson and Johnson Vision Care (USA)
**DURATION OF FUNDING** 2020
**TOTAL FUNDS** $529,412

**NAMES** Collins MJ, Yi F, Davis B.
**TITLE** Optical design
**FUNDING SOURCE** Commercial - Prohibition X (Singapore)
**DURATION OF FUNDING** 2020-2021
**TOTAL FUNDS** $78,873

**NAME** Collins MJ.
**TITLE** Applying machine learning to efficiently analyse fundus autofluorescence images in preparation for gene therapy
**FUNDING SOURCE** Ophthalmic Research Institute of Australia
**DURATION OF FUNDING** 2020-2021
**TOTAL FUNDS** $47,800

**NAME** Collins MJ.
**TITLE** Prescription of oral medication by optometrists
**FUNDING SOURCE** Optometry Australia
**DURATION OF FUNDING** 2020-2021
**TOTAL FUNDS** $4,000
<table>
<thead>
<tr>
<th>NAMES</th>
<th>Title</th>
<th>Funding Source</th>
<th>Duration of Funding</th>
<th>Total Funds</th>
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<tbody>
<tr>
<td>Collins MJ, Read SA,</td>
<td>Myopia X</td>
<td>Commercial - Dopavision (Germany)</td>
<td>2020-2021</td>
<td>$54,108</td>
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<td>Hoseini-Yazdi H.</td>
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<td>Feigl B, Zele AJ,</td>
<td>Photoreceptor-directed light therapy in Parkinson’s disease</td>
<td>Michael J. Fox Foundation</td>
<td>2020-2023</td>
<td>$856,096</td>
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<td>Kerr GK, Lewis S.</td>
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<td>Hopkins S.</td>
<td>Evaluation of school-based eye care programs</td>
<td>Optometry Australia LOOK scholarship</td>
<td>2020-2021</td>
<td>$4,000 AUD</td>
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<tr>
<td>Holguin Colorado L.</td>
<td>Label-free imaging of round-shaped immune cell kinetics in the human</td>
<td>QUT Women in STEMM Program Editing Award</td>
<td>2021</td>
<td>$750</td>
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<td>living cornea using In vivo confocal microscopy</td>
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<td>Kalloniatis M,</td>
<td>Predicting visual function from structural data in health and ocular</td>
<td>NHMRC Ideas Grant</td>
<td>2020-2023</td>
<td>$476,548</td>
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<td>Zangerl B, Alonso-</td>
<td>disease</td>
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<td>Caneiro D, Khuu S.</td>
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</tbody>
</table>

NAME: Collins MJ, Read SA, Hoseini-Yazdi H.

Title: Myopia X

Funding Source: Commercial - Dopavision (Germany)

Duration of Funding: 2020-2021

Total Funds: $54,108

NAME: Feigl B, Zele AJ, Kerr GK, Lewis S.

Title: Photoreceptor-directed light therapy in Parkinson’s disease

Funding Source: Michael J. Fox Foundation

Duration of Funding: 2020-2023

Total Funds: $856,096

NAME: Hopkins S.

Title: Evaluation of school-based eye care programs

Funding Source: Optometry Australia LOOK scholarship

Duration of Funding: 2020-2021

Total Funds: $4,000 AUD

NAME: Holguin Colorado L.

Title: Label-free imaging of round-shaped immune cell kinetics in the human living cornea using In vivo confocal microscopy

Funding Source: QUT Women in STEMM Program Editing Award

Duration of Funding: 2021

Total Funds: $750
**NAME** Read SA.
**TITLE** Image analysis project
**FUNDING SOURCE** Commercial
**DURATION OF FUNDING** 2020-2021
**TOTAL FUNDS** $106,300

**NAMES** Read SA, Wood JMW, Hopkins S, Scott J.
**TITLE** Providing children’s vision testing services in remote Cape York and Torres Strait Islander communities
**FUNDING SOURCE** QUT Health Law Collaborative Seed Funding
**DURATION OF FUNDING** 2020-2021
**TOTAL FUNDS** $22,931

**NAME** Pieterse EC.
**TITLE** Effect of nightly low dose atropine on the ocular surface and binocular vision system of myopic children
**FUNDING SOURCE** QUT Women in Research Grant Scheme
**DURATION OF FUNDING** 2019-2020
**TOTAL FUNDS** $9,947
NAMES Read SA, Vincent SJ.
TITLE A multicenter, vehicle-controlled, randomized study to evaluate the safety, tolerability, systemic pharmacokinetics, and pharmacodynamics of AZR-MD-001 in patients with meibomian gland dysfunction (MGD) and evaporative dry eye disease (DED)
FUNDING SOURCE Commercial - Azura Ophthalmics
DURATION OF FUNDING 2019-2021
TOTAL FUNDS $267,184

NAMES Wood JM, Black AA.
TITLE Effect of LED streetlight levels and colour on night driving performance
FUNDING SOURCE Transport and Main Roads; Dept Transport & Infrastructure (SA)
DURATION OF FUNDING 2020-2021
TOTAL FUNDS $150,000

NAMES Wood JM, Black AA, Bentley SA, Dingle K.
TITLE A systematic literature review to determine the risk of motor vehicle crashes and unsafe on-road driving for drivers with vision disorders
FUNDING SOURCE VicRoads
DURATION OF FUNDING 2020
TOTAL FUNDS $57,634

NAMES Wood JM, McKendrick A, Black AA, Lacherez P, Isoardi G, Owsley CO.
TITLE Using visual science to reduce the dangers of night driving
FUNDING SOURCE ARC Discovery (DP190103141)
DURATION OF FUNDING 2019-2021
TOTAL FUNDS $399,458

NAME Zele AJ.
TITLE Vision and lighting in the age of melanopsin
FUNDING SOURCE Australian Research Council (ARC) Future Fellowship
DURATION OF FUNDING 2018-2021
TOTAL FUNDS $1,107,541
Peer-Reviewed Articles in Scholarly Journals


33. Jaisankar D, Liu Y, Kollbaum P, Jakulski M,


Other Refereed Contributions to a Scholarly Journal


Non-refereed Articles


Books and Book Chapters

Presentations at Conferences

1. Atchison DA. Role of peripheral retina in myopia. Indian Myopia Awareness and Research Conference (IMARC); 2020, 24 Oct: Hyderabad, India.


JASON KUGELMAN AT THE INTERNATIONAL CONFERENCE ON DIGITAL IMAGE COMPUTING: TECHNIQUES AND APPLICATIONS (DICTA), MELBOURNE.

STEPHEN VINCENT (FAR RIGHT) AT THE GLOBAL SPECIALTY LENS SYMPOSIUM, LAS VEGAS.


Presentations at Seminars

(LEFT) PHD GRADUATE ASHIM DEY

(RIGHT) PHD GRADUATE ROHAN HUGHES WITH KATIE AND BABY POPPY

PHD GRADUATE HAMED NIYAZMAND (CENTRE), WITH SUPERVISORS ASSOCIATE PROFESSOR SCOTT READ (LEFT) AND PROFESSOR DAVID ATCHISON (RIGHT) PHD GRADUATE URSULA WHITE (SECOND FROM RIGHT), WITH SUPERVISORS PROFESSOR JOANNE WOOD (SECOND FROM LEFT) AND DR ALEX BLACK (FAR RIGHT), AND HEAD OF SCHOOL, PROFESSOR SHARON BENTLEY.
Higher Degree Research Completions

ASHIM DEY
Title: Melanopsin Photoreceptor Contributions to Brightness Perception and Photophobia
Supervisors: Beatrix Feigl, Andrew Zele, Prakash Adhikari

SUNILA DUMPALA
Title: The Role of Retinal Photoreceptors in the Regulation of Circadian Rhythms and Sleep in Systemic Disease
Supervisors: Andrew Zele, Beatrix Feigl, Graham Kerr

ROHAN HUGHES
Title: Ocular characteristics of non-myopic and myopic children during relaxed and active accommodation
Supervisors: Stephen Vincent, Scott Read, Michael Collins

HAMED NIYAZMAND
Title: Anterior Scleral Changes with Accommodation and Convergence
Supervisors: Scott Read, Michael Collins, David Atchison

URSULA WHITE
Title: Concern about Falling in People with Age-Related Macular Degeneration
Supervisors: Joanne Wood, Alex Black, Kim Delbaere
Promotions, Awards and Recognition

**STAFF PROMOTIONS**

Senior Lecturer Katie Edwards (pictured top).

**RESEARCH AWARDS**

Katrina Schmid (pictured bottom right) and Julie Albietz (pictured bottom left) awarded the *Clinical and Experimental Optometry, 2020, J Lloyd Hewett Award* for their paper:

‘Intense pulsed light treatment and meibomian gland expression for moderate to advanced meibomian gland dysfunction’.
TEACHING AND LEARNING AWARDS

- Professor Sharon Bentley: Associate Fellow Higher Education Academy (Indigenous)
- Mr Damien Fisher: Associate Fellow Advanced Higher Education
- Mr Dinesh Kaphle: Associate Fellow Higher Education Academy
- Ms Barsha Lal: Fellow Higher Education Academy
- Ms Marissa Megaloconomos: Fellow Higher Education Academy
- Ms Swee Chai Teoh: Fellow Advanced Higher Education

PROFESSIONAL AWARDS

Dr Shelley Hopkins (pictured right): Optometry Australia ‘LOOK’ Scholarship, to review “optometric advancements internationally that are not yet available, or readily available here.” Shelley will consider optometry’s important role in assessing and managing children’s vision conditions through school-based eye care programs, by comparing programs across the US, UK, Europe and Asia.
Staff

PROFESSIONAL STAFF

- Kym Anderson (Acting School Coordinator)
- Kelly Beith
- Adele Birks (School Coordinator)
- Catherine Foster
- Robyn Sutton

CLINIC STAFF

- Harry Grzes
- Tina Huynh (Clinic Coordinator)
- Kylie Prince

RESEARCH STAFF

- Nadine Alexander
- David Alonso Caneiro
- Lauren Beecher
- Laura Bentley
- Ines Cahill
- Drew Carter
- Phuntsho Choden
- Damian Cuda
- Brett Davis
- Samaneh Delshad
- Sanet Johanna De Villiers
- Alexander Dwyer
- Francisco Garcia Marin
- Amanda Griffiths
- Jared Hamwood
- Patrick Heyen
- Gregory Hindmarsh
- Luisa Holguin Colorado
- Kirrily Hoole
- Seyed Hosein Hoseini Yazdi
- Rohan Hughes
- Callula Killingly
- Jason Kugelman
- Hamish McNeill
- Ezra Margetts-Graham
- Hamed Niyazmand
- Thomas Nugent
- Asik Pradhan
- Nicola Pritchard
- Prynta Rajasingam
- Jenna Riseley
- Alyra Shaw
- Marwan Suheimat
- Hoang Tran
- Sekar Ulaganathan
- Anthony Wingard
- Fan Yi
- Stanislovas Zacharovas
SESSIONAL STAFF

• Sandra Au
• Barsha Barsha
• Felicity Berkley
• Celia Bloxsom
• Shuvagata Bose
• Edward Burgin
• Jeffrey Cobb
• Rebecca Cox
• Samaneh Delshad
• Ruvini Dissanayake
• Sunila Dumpala
• Damien Fisher
• David Foresto
• Subodh Gnyawali
• Cheryn Goh
• Peter Hendicott
• Gregory Hindmarsh
• Mark Hinds
• Luisa Holguin Colorado

• Yan Hsing
• Rohan Hughes
• Durgasri Jaisankar
• Simon Lan
• Courtenay Lind
• Simon Little
• Rhys Luckey
• Hamish McNeill
• Kylie McNeill
• Marissa Megaloconomos
• Hamed Niyazmand
• Thomas Nugent
• Mark Overton
• Candice Pearson
• Leah Pettit
• Prynthia Rajasingam
• Leisa Schmid
• Alyra Shaw
• Ada Tang
• Swee Chai Teoh
• Sekar Ulaganathan

• Samir Uprety
• Dinesh Venugopal
• Elizabeth Vieritz
• Daniel Vu
• Julie Weir
• Kevin Yow Yeah

HIGHER DEGREE RESEARCH STUDENTS

• Barsha Barsha
• Pradipta Bhattacharya
• Andrew Christiansen
• Rebecca Cox
• Mahesh Dev
• Sunila Dumpala
• Damien Fisher
• Francisco Garcia Marin
• Gregory Hindmarsh
• Lirong Esther Ho
• Sekar Ulaganathan
• Rohan Hughes
• Durgasri Jaisankar
• Dinesh Kaphle
• Vinay Kumar Nilagiri
• Hamed Niyazmand
• Thomas Nugent
• Mukund Pant
• Kate Pecar
• Asik Pradhan
• Zachery Quince
• Archayeeta Rakshit
• Swee Chai Teoh
• Samir Uprety
• Dinesh Venugopal
• Ursula White
• Ilyanoon Zahari

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- Vice President: Briana Tsang

**QUEENSLAND OPTOMETRY STUDENT SOCIETY (‘QOSS’) EXECUTIVE.**

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- Secretary: Katrina Lacy
- Social Executive: Emma Haley
- Fundraising Executive: Cassandra-Elyse Versteeg
- Media Executive: Aaron Phan
- Eyeball Executives: Sally Lee, Emily McIntyre

- Academic Executive: Renata Gordon
- Fourth Year Representatives: Steven Ho, Phylcia Suhartono, Julie Lee, Dani Pham, Nadine Alexander.
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