

# Kerri Keet

**Citizenship:** South African

Cape Town, South Africa

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## Academic Status

Lecturer, Division of Clinical Anatomy, Department of Biomedical Sciences,  
University of Stellenbosch (assumption of duties from January 2019)

Assistant Lecturer, Division of Clinical Anatomy and Biological Anthropology,  
Department of Human Biology, University of Cape Town, South Africa (until 31  
December 2018).

## Academic Qualifications

- 2013 MSc (Med) Anatomy at University of Cape Town, South Africa. Title:  
An investigation of the brachial plexus and surrounding anatomical  
structures in a Southern African cadaver sample. Supervisor: Professor  
Graham Louw.
- 2010 BSc (Med) Honours Anatomy at University of Cape Town, South Africa.  
Title: The Gross Anatomy of the Ligamentum Arteriosum: A Cadaver  
Study. Supervisors: Dr Rachel Alexander and Dr Geney Gunston.
- 2009 BSc (Physiology and Genetics) at University of Cape Town, South  
Africa.

## Teaching Experience

- 2015 - 2018 **Full-time Assistant Lecturer in Anatomy, Department of Human  
Biology, University of Cape Town, duties including:**
- Designing and delivering lectures in Anatomy, Neuroanatomy and Embryology to undergraduate and postgraduate courses.
  - Planning, setting up, coordinating and running practical sessions for the above subjects.
  - Setting EMI and MCQ exam questions.
  - Examination of final BSc (Hons) Anatomy theses.
  - Designing online based learning for correspondence students.
  - Curriculum development in the Intervention Programme
  - Supervision of postgraduate students.

- 2014 **Part-time Assistant Lecturer in Anatomy, Department of Human Biology, University of Cape Town, duties including:**
- Designing and delivering lectures in Anatomy to the Intervention Programme in MBChB.
  - Planning, setting up, coordinating and running Anatomy practical sessions.
  - Setting EMI and MCQ exam questions.
  - Teaching Anatomy in whole body dissection practicals.

**Courses lectured:**

**Undergraduate:** Intervention Programme in MBChB; first and second year MBChB; first and second year Allied Health Sciences (Physiotherapy, Occupational Therapy, and Speech – Language Pathology and Audiology); Bachelor of Science (Physiology).

**Postgraduate:** Bachelor of Science (Honours); Masters in Biomedical Forensic Science.

2011 – 2013 **Teaching Assistant, Department of Human Biology, University of Cape Town**

- Demonstrating at Anatomy practical sessions for first and second year students in Medicine; Allied Health Sciences (including whole body dissection).
- Dissection of cadaveric specimens for plastination.
- Setting EMI and MCQ exam questions.

**Course Convening**

2018 Acting convenor of Speech – Language Pathology and Audiology Course.

**Administrative Experience**

2014 - 2018

- Course timetables (Allied Health Sciences course).
- Practical roster for demonstrating staff.
- Setting and marking worksheets and assessments (written and practical).
- Invigilation of tests and exams.
- Online based examination questions (MCQ and EMI).
- Setting up revision quizzes (practical and written, formative and summative).
- Updating and revising the Body Donor information and forms.

### **Current Research Focus**

- Assessing the impact of clinical guest lecturers on the motivation of first and second year health sciences students.
- Assessing the suitability of South African individuals for percutaneous access in minimally invasive surgery. Collaboration with the Chris Barnard Division of Cardiothoracic Surgery, Groote Schuur Hospital.
- Variation in the anatomy of the aortic arch and possible association with congenital heart disease.
- Various Clinical Anatomy research projects offered for post graduates

### **Research Collaborations**

2018 - current	Brandon Michael Henry (Cincinnati Children's Hospital, United States of America)
2018 – current	Rik de Decker (Cathlab, Red Cross Children's Hospital)
2017- current	Marise Heyns (Division of Forensic Medicine, University of Cape Town)
2017 – current	Tim Pennel and Jacques Scherman (Division of Cardiothoracic Surgery, Groote Schuur)
2016 – current	Geney Gunston (Division of Clinical Anatomy and Biological Anthropology, University of Cape Town)

### **Students Supervised**

2017	BSc Honours in Anatomy - Taherah Asmall: Variation of the Sciatic Nerve in relation to the Piriformis muscle. Co-supervised with Dr Geney Gunston.
2017	BSc Honours in Anatomy - Louren Bruce: Variation in the persistent Eustachian valve. Co-supervised with Dr Geney Gunston.
2017	BSc Honours in Anatomy - Krisna Els: The orbitofrontal cortex in the cadaver population in the Department of Human Biology at the University of Cape Town. Co-supervised with Dr Chris Warton.

### **Current students**

2018	MPhil Biomedical Forensic Science – Thandiswa Mkonto: Exploring the incidence of malpractice suits involving the phrenic and recurrent laryngeal nerves: frequency, anatomical variation and outcome. Co-supervised with Dr Marise Heyns.
2018	MPhil Biomedical Forensic Science – Rubber bullet injuries with specific focus on the lower limbs. Co-supervised with Dr Marise Heyns.

### Peer-Reviewed Publications

**Keet KA**, Gunston G, Alexander R. 2018. Variation in the Anatomy of the ligamentum arteriosum in a South African sample. *European Journal of Anatomy* 22(2): 119-125.

**Keet KA**, Louw G. 2018. Superficial location of the brachial plexus and axillary artery in relation to pectoralis minor: a case report. *South African Journal of Anesthesia and Analgesia* 24(4): 114-117 <https://doi.org/10.1080/22201181.2018.1489463>

**Keet KA**, Gunston G. 2018. An unusual case of three branches arising from the aortic arch: bicarotid trunk, left subclavian artery and aberrant right subclavian artery *European Journal of Anatomy* 22(5): 429-432.

**Keet KA**, Gunston G. Submitted 19 Sep 2018. Variations in the branching pattern of the aortic arch: an African perspective. *European Journal of Anatomy*

**Keet KA**, Louw G. Submitted 28 Sep 2018. Position of the roots of the brachial plexus in relation to the anterior scalene: relevance in interscalene block. *Surgical and Radiologic Anatomy*.

### In Preparation

*Learning Anatomy from plastinated and wet specimens: a student survey.*

*Anatomy of the supraclavicular brachial plexus with relevance in interscalene and supraclavicular blocks.*

*The surgical anatomy of the sciatic nerve and its relationship to piriformis muscle.*

### Non Peer-Reviewed Publications

**KA Keet**. Accepted 20 July 2018. Addressing publication bias in the anatomical literature by reporting zero prevalence of bicuspid aortic valve. Letter to the Editor, *Clinical Anatomy*.

### Conference Presentations

Gunston G, **Keet KA**, Alexander R. 2012. *The gross Anatomy of the ligamentum arteriosum: a cadaver study*. Anatomical Society of Southern Africa 40<sup>th</sup> Annual Conference. Windhoek, Namibia April 14<sup>th</sup> – 18<sup>th</sup>.

**Keet KA**, Louw G. 2017. *An investigation of the brachial plexus and surrounding anatomical structures in a Southern African cadaver sample*. Anatomical Society of Southern Africa 45<sup>th</sup> Annual Conference. Cape Town, South Africa April 23<sup>rd</sup> – 26<sup>th</sup>.

**Keet KA**. 2017. *What do students think about learning Anatomy from plastinated specimens at the University of Cape Town?* International Society of Plastination 12<sup>th</sup> Interim Conference on Plastination. Durban, South Africa July 2<sup>nd</sup> – 7<sup>th</sup>.

**Keet KA**. 2017. *Innovative ways of teaching Anatomy to the Intervention Programme for Medicine at the University of Cape Town*. Centre for Innovation in Learning and Teaching Annual Conference. Cape Town, South Africa Aug 2<sup>nd</sup>.

**Keet KA.** 2017. *Innovative ways of teaching Anatomy to the Intervention Programme for Medicine at the University of Cape Town.* Celebrating Health Science Education Conference. Cape Town, South Africa Aug 3<sup>rd</sup>.

**Keet KA,** Gunston G, Da Silva R. 2018. *50 years of aortic arch research.* Anatomical Society of Southern Africa 46<sup>th</sup> Annual Conference. Muldersdrift, South Africa April 22<sup>nd</sup> – 25<sup>th</sup>.

**Keet KA,** Pennel T, Scherman J. 2018. *The diameter of commonly used peripheral blood vessels for access in minimally invasive cardiac surgery.* Anatomical Society of Southern Africa 46<sup>th</sup> Annual Conference. Muldersdrift, South Africa April 22<sup>nd</sup> – 25<sup>th</sup>.

**Keet KA.** 2018. *Plastinated specimens – do Anatomy undergraduate students prefer them to wet specimens?* Anatomical Society of Southern Africa 46<sup>th</sup> Annual Conference. Muldersdrift, South Africa April 22<sup>nd</sup> – 25<sup>th</sup>.

**Keet KA.** 2018. *The amount of shrinkage that occurs in brain specimens during the S10 plastination process.* Anatomical Society of Southern Africa 46<sup>th</sup> Annual Conference. Muldersdrift, South Africa April 22<sup>nd</sup> – 25<sup>th</sup>.

**Keet KA,** Els K, Warton C. 2018. *A qualitative assessment of the sulci and gyri of the orbitofrontal cortex.* Anatomical Society of Southern Africa 46<sup>th</sup> Annual Conference. Muldersdrift, South Africa April 22<sup>nd</sup> – 25<sup>th</sup>.

**Keet KA.** 2018. *The diameter of commonly used peripheral blood vessels for percutaneous access in cardiac surgery.* International Association of Student Surgical Societies & Southern African Student Surgical Society Symposium. Cape Town, South Africa July 11<sup>th</sup> – 15<sup>th</sup>.

**Keet KA,** Thomson D. 2018. *Encouraging undergraduate students to understand the clinical relevance of learning Anatomy.* 10<sup>th</sup> Annual Celebrating Health Sciences Education conference. Cape Town, South Africa August 16<sup>th</sup>.

**Keet KA,** Gunston G, Da Silva R. 2018. *Fifty years of research into the branching pattern of the aortic arch.* Department of Human Biology 1<sup>st</sup> Annual Research Day. Cape Town, South Africa Oct 12<sup>th</sup>.

**Keet KA,** Pennel T, Scherman J. 2018. *Diameter of the femoral-iliac vessels used in percutaneous access of the heart in cardiac surgery: a pilot study.* Department of Human Biology 1<sup>st</sup> Annual Research Day. Cape Town, South Africa Oct 12<sup>th</sup>.

### Invited Talks

- 2018 Hands-on Adult Transoesophageal Echocardiography Course, Department of Anesthesia and Perioperative Medicine, Groote Schuur Hospital, Cape Town, South Africa.
- 2018 Teaching and Educating with Technology (TET) May 31<sup>st</sup>.
- 2018 Teaching and Educating with Technology (TET) October 30<sup>th</sup>.

### Funding, Awards and Grants

2018	Department of Human Biology Research Day, 1 <sup>st</sup> Prize for Best Poster
2018	Anatomical Society of Southern Africa conference: 1 <sup>st</sup> runner up of the Best Young Presenter award.
2018	URC conference funding (R11 000).
2017	University of Cape Town Teaching Grant in collaboration with P Steyn and A Abrahams.
2012	NRF Innovation Masters Scholarship.
2011	NRF Innovation Masters Scholarship.
2010	Benfara Scholarship; UCT Council Honours Need Scholarship.
2009	Science Faculty Scholarship.
2008	Class Medal; Dean's Merit List; Science Faculty Scholarship. Invitation to join Golden Key Society.
2007	Dean's Merit List; Invitation to join Golden Key Society.

### Academic Service

2018	Human Biology Research Day Scientific committee.
2017 – present	Human Biology space committee.
2017 – present	Human Biology water saving committee.

### Conference Organisation

2017	Organising Committee for the 45 <sup>th</sup> Annual Conference of the Anatomical Society of Southern Africa. Cape Town, South Africa April 23 <sup>rd</sup> – 26 <sup>th</sup> .
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### Reviewer

2018	<i>Surgical and Radiologic Anatomy</i>
2018	<i>Anatomical Sciences Education</i>
2017	<i>Clinical Anatomy.</i>
2012	<i>Clinical Anatomy.</i>
2011	<i>Clinical Anatomy.</i>

### Scarce skills

2016 – Present	<b>Plastination;</b> Knowledge and practical application of the S10, S15, E12 and P40 plastination procedures as well as the chemicals and equipment required. Competent in silicone and latex dye injection of blood vessels.
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## **Social Responsiveness**

- Promotion of body donation programme within the University and to the public.
- Arranging and hosting visitors to the Division (eg Pilates and chiropractor students).
- Science in our Schools (SOS) host.

## **Professional Development Training**

- Teaching, Learning and Assessment Short Course (accredited short course, Continuing Education Unit, Faculty of Health Sciences) February – August 2017.
- Education seminars run by the Health Sciences Education Department throughout 2017 and 2018 (TET Talks hosted by Gregory Doyle).
- Emerging Researcher Workshops throughout 2018
- Organ Donation: From Death to Life (Coursera) 2018.
- Understanding Clinical Research: Behind the Statistics Short Course (University of Cape Town, Coursera) 2017.
- How to Write and Publish a Scientific Paper (Ecole Polytechnique, Coursera) 2017.
- Academic Induction Programme to Research Funding at UCT 2017.
- Writing Retreat November 2018, Emerging Researcher Programme.

## **Professional Affiliations and Memberships**

2018 – present	International Evidence-Based Anatomy Working Group
2017 – present	Anatomical Society of Southern Africa.
2017 – present	International Society of Plastination.
2017 – present	Southern African Neuroscience Society.

## **References**

- Dr Victoria Gibbon (course convenor first year Health and Rehabilitation Sciences), Department of Human Biology, University of Cape Town, South Africa.  
victoria.gibbon@uct.ac.za
- Dr Charles Slater (course convenor MBChB), Department of Human Biology, University of Cape Town, South Africa.  
charles.slater@uct.ac.za
- Dr Geney Gunston (course convenor MBChB; research collaborator), Department of Human Biology, University of Cape Town, South Africa.  
geney.gunston@uct.ac.za