

Dr Prince Last Mudenda Zilundu
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Qualifications

PhD Human Anatomy, Embryology and Histology (2021)
MSc in Anatomy (2012)
BSc Honours Occupational Therapy (2008)
BSc (Intercalated) Honours Human Anatomy (2006)

OBJECTIVE	To Be A Leader in Anatomical and Neurosciences
PERSONAL ATTRIBUTES RELEVANT TO ANATOMY	<ul style="list-style-type: none"> ● Innovative in communication, health education, research, and related fields with high expertise in data gathering, conceptualization, synthesizing, analysis, production, and visual presentation. ● Excellent communication and presentation skills and proven ability to interact constructively with students, academic colleagues, technical staff, and administrative staff in the multi-cultural University settings. ● Creative skills in the conduction of tutorials and dissection/laboratory classes related to Anatomy (Gross, neuroanatomy, embryology and histology). ● Experienced and able to deliver a comprehensive range of courses related to the Anatomy subject area and to contribute to course development, monitoring as well as health professions curricula design and reviews. ● Experienced and able to supervise, guide and assess student learning (formative, summative and thesis assessments). ● A professional counselor: sympathetic approach in dealing with student problems, both academic and personal because of a strong grounding in psychosocial occupational therapy. ● Experienced in the critical appraisal of research papers and preparation of research data for publication in the peer reviewed scientific literature as shown by an emerging publication record. ● Conversant with wide range of innovative instruction methods including problem, team and case-based learning. Have proven ability to develop and devise medical education teaching/research programs, techniques, and methods. ● Wide breadth and depth of knowledge in Anatomy (Gross, Histology and Embryology) to develop teaching and learning support systems ● Proven ability to design, review and enhance learning, teaching and assessment and/or research programs as well as ability to communicate complex or conceptual ideas to those with limited knowledge and understanding, relevant to beginners in anatomy. ● Perform routine laboratory work including buffer preparation and tissue histology as well as practical experience with cell culture, microscopy, and immunoblotting, molecular cloning, GST pull down assays and mouse/rat models, in vivo surgery, and behavioral testing
Anatomical Sciences Work Related Experience	
I have accumulated over sixteen (16) years of involvement in Anatomy education and research	
Current	

position Duties in brief	Assistant Professor Lecturing and examining Gross Anatomy and Neuroanatomy (Head and Neck) as well as Integrated Biological Sciences to Dentistry students, Supervision of undergraduate students labs.
Name of employer	Basic and Medical Sciences Department, Ajman University, Ajman United Arab Emirates (17 January 2022 to date)
Dates	
Position held Duties	Graduate Teaching Assistant Assisted my professor and PhD supervisor to demonstrated whole body anatomy dissections as well as lectured gross anatomy and neuroanatomy to medical and postgraduate neurobiology research students. Supervise junior research students. I drafted and proofread English language manuscripts for publication as well as edited teaching and learning materials and was involved in marking of examinations.
Name of employer	Sun Yat-sen University Department of Human Anatomy (August 2016 to December 2020)
Dates	Position held Brief job description
Name of employer	Dates Lecturer Lecturing and examining Gross Anatomy, Histology, Neuroanatomy and Embryology to Medical, Dental Surgery, Radiography, Nursing Science, Occupational Therapy and Physiotherapy students, MPT, MMed students. Set and marked exams. Member of University senate and involved in numerous departmental/faculty committees to ensure smooth running of institutional operations
	Anatomy Department, University of Zimbabwe College of Health Sciences, Zimbabwe (Sept 2012 to March 2017)
Position held Brief job description	Lecturer Lecturing and examining Gross Anatomy, Histology, Neuroanatomy and Embryology to Medical students. Set and marked exams. Member of University senate and involved in numerous departmental/faculty committees to ensure smooth running of institutional operations
Name of employer	Anatomy and Physiology Department, National University of Science and Technology, Zimbabwe College of Health Sciences, Zimbabwe
Dates	(Sept 2012 to March 2017)
Position held Brief job description	Anatomy Assistant Lecturer Lecturing and Examining Gross Anatomy, Histology, Neuroanatomy and Embryology to Medical, Dental Surgery, Nursing, Radiography Occupational and Physiotherapy undergraduate students. Supervise cadaver dissections and histology practicals. Participate in administration duties as assigned
Name of employer	Anatomy Department, University of Zimbabwe College of Health Sciences, Zimbabwe (November 2008 to Sept 2012)

Position held Brief job description	Anatomy Demonstrator Demonstrated Whole body Anatomy and lectured Gross Anatomy and Neuroanatomy to Medical Dental Surgery, Nursing Science, Radiography Occupational and Physiotherapy undergraduate students. Made pre-dissected specimens for the department. Participated in body embalming and body bequeathal program
Name of employer Dates	Anatomy Department, University of Zimbabwe College of Health Sciences, Zimbabwe (August 2005 to November 2008)
Occupational Therapy I have accumulated over 12 years of Occupational Therapy Practice and Instruction	
Occupational Therapy Instruction	Guest Occupational Therapy Lecturer 2014 to 2021 I taught the Occupational Therapy Techniques IV (Neurorehabilitation) and Clinical Occupational therapy III modules for the Rehabilitation Dept., University of Zimbabwe, College of Health Sciences, Harare, Zimbabwe
Occupational Therapy Instruction Dates	Guest Occupational Therapy Lecturer and Clinical Examiner (September 2008 to May 2016) Lecturing the Musculoskeletal Anatomy Module of MSc Physiotherapy, Occupational Therapy techniques 1 and Kinesiology/Applied Biomechanics to Occupational and Physiotherapy students in the Rehabilitation Dept., University of Zimbabwe, College of Health Sciences, Harare, Zimbabwe
Clinical Work experience	I worked as an Occupational Therapist (October 2008 to December 2010) Treating outpatients, inpatients and being on-call as well as rotated (6 months each time) through all medical specialties including psychiatry in the Rehabilitation Department of Parirenyatwa Group of Central and Referral Hospitals, Harare, Zimbabwe. I was also involved in supervising university students on Clinical attachments as well as taking part in their Clinical examinations. This was a dual appointment as I also served as Assistant lecturer in Anatomy at the time. Parirenyatwa is a teaching hospital affiliated with University of Zimbabwe As a Student Occupational Therapist (2003-2008) I underwent clinical placements at 5 referral hospitals in Zimbabwe 18 months per year, over a 4-year Occupational Therapy degree program including an 8-week rural community health attachment.
Education and Training	
Highest qualification 1 Topics of Study	PhD Human Anatomy, Embryology and Histology (Sun Yat-sen University, China, 2021) Cross talk between c-Jun and nNOS signaling pathways following brachial plexus roots avulsion: In search of a molecular mechanism for motor neuron apoptosis

Title of qualification 2	Health Education Advanced Leadership for Zimbabwe Program (HEALZ, 2014)
School Principal subjects	University of Colorado Denver in Collaboration with University of Zimbabwe
Curriculum designed	Included training programs in Educational Pedagogy, educational leadership and Scholarship, curriculum change project and curriculum evaluation done over 12 months (July 2013 to July 2014). Mini thesis: <i>An integrated evidence-based neurorehabilitation curriculum for final year BSc. Honors Occupational Therapy program</i>
Title of qualification 3	Master of Science in Anatomy degree (University of Zimbabwe, 2012)
Principal subjects	Advanced courses in Gross Anatomy, Evolutionary Anatomy, Histology, developmental Biology, Anatomy of laboratory animals and wildlife, Research Methodology, Avian Anatomy and Neuroanatomy and Reproductive Anatomy Plus, Dissertation entitled: <i>“morphometric study of ventricular sizes on normal computed tomography scans of adult black Zimbabweans at four diagnostic radiology centers in Harare-a pilot study”</i>
Title of qualification 4	BSc Honors Occupational Therapy Degree (University of Zimbabwe, 2008) <i>(University Book Prize)</i>
Principal subjects	Training to be an Occupational Therapist Thesis entitled: <i>The burden of caregiving to persons living with HIV/AIDS: A case of Zimbabwe 's Central hospitals in Zimbabwe.</i>
Title of qualification 5	BSc (Intercalated) Honors Human Anatomy Degree (University of Zimbabwe, 2006)
Principal subjects	An Intercalated degree. Advanced courses in Gross Anatomy, Neuroanatomy, Histology & Embryology Thesis entitled: <i>the prevalence of atherosclerosis in intracranial portions of the internal carotid arteries of adult black Zimbabweans: a light microscopy pilot study.</i>
Title of qualification	GCE Advanced Level Certificate (2001, Fatima High School, Bulawayo, Zimbabwe)
Principal subjects	Sciences (Maths, Biology, Chemistry) Cambridge/ZIMSEC
Title of qualification	GCE Ordinary Level Certificate (1999, Binga High School, Binga, Zimbabwe)
Principal subjects	Sciences, commercials, and Arts including Mathematics and English (ZIMSEC)
Professional Affiliations	
Anatomist	Anatomical Society of Southern Africa, South Africa (Feb 2007 to date)
Occupational Therapist	Health Professions Authority, Zimbabwe (November 2008 to date). Reg No OT000130
Occupational Therapist	Medical Rehabilitation Council of Zimbabwe (November 2008 to date). Reg No OT000130
Sports, Clubs and Awards	
President	of the University Physiotherapy and Occupational Therapy Students Association,

	University of Zimbabwe (2007-2008)
First Anatomist	in Zimbabwe from Occupational Therapy in Zimbabwe (2006)
Footballer	Social soccer of the University of Zimbabwe staff team
Scholarships and Awards	
	<p>Chinese Government Scholarship (2016-2020) Doctor of Philosophy Tenable at Sun Yat-sen University Zhongshan School of Medicine, Guangzhou, P. R. C</p> <p>University of Zimbabwe Book Prize (2004) for being overall best student in all courses during the academic year 2003-2004</p> <p>International Brain Research Organization Travel grant (June 2013) to Morocco for a 10-day Neuroscience Workshop on basic and clinical neuroscience research</p> <p>TRend in Africa Tanzania AUGUST 2014 A month long course on model organisms for studying human disease e.g. <i>Melanogaster D</i>; Open Source labware/Microscopy</p> <p>Trend in Africa/3D Printing Laboratory Work, Ethiopia 2015 Month long course on using Open-Source 3D Printing as a tool for making learning and teaching aids, including application for making lab equipment and neuroscience research.</p> <p>Small Research Grant (SACORE/NECTAR) For research on the birth outcomes of mothers who fall pregnant while taking ARVs (2013-2014)</p>
ONGOING RESEARCH WORK	
	<p>Conference presentations</p> <ol style="list-style-type: none"> Zilundu Prince LM, L. Liu, Y. Tang, Z. Ling, G. Yu The ERR gene expression on spinal cord after brachial plexus root avulsion (Abstract Poster) Journal of Neurochemistry Volume 142, Issue S1 Special Issue: ISN - ESN 2017 Meeting, Paris, France, 20–24th August 2017 Pages 78-164 https://doi.org/10.1111/jnc.14093 Prince LM Zilundu, Yingying Zhou, Dazheng Xu Anatomical variations of the aortic arch branches in a sample of Chinese cadavers:embryological basis and literature review Chinese Society of Anatomy 2019 Annual Conference, Kunming August 2019 https://wap.cnki.net/touch/web/Conference/Article/ZGJP201908001656 <p>Publications</p> <ol style="list-style-type: none"> Zhong K, Li Y, Tang Y, Yu G, Zilundu PLM, Wang Y, Zhou Y, Xu X, Fu R, Zhou L Motor neuron survival is associated with reduced neuroinflammation and increased autophagy after brachial plexus avulsion injury in aldose reductase- deficient mice. <i>J. Neuroinflammation</i> (Accepted October 2022) Zhang JF, Zilundu PLM, Zhou L, Guo GQ. Evaluating the performance of medical students based on distance learning in regional anatomy during the Coronavirus (COVID-19) pandemic <i>Anat Sci Educ</i> ; 2022 Jun 29. Jifeng Zhang, Prince Last Mudenda Zilundu, Wenbin Zhang, Sumei Li, Zhou Lihua and Guoqing Guo Surgical Boot Camp improves clinical and surgical competencies in senior medical students <i>BMC Med Educ</i> 22, 459 (2022). https://doi.org/10.1186/s12909-022-03536-y

4. **Zilundu PLM**, Xu X, Liaquat Z, Wang Y, Zhong K, Fu R, Zhou L. Long-Term Suppression of c-Jun and nNOS Preserves Ultrastructural Features of Lower Motor Neurons and Forelimb Function after Brachial Plexus Roots Avulsion. *Cells*. 2021 Jun 28;10(7):1614. doi:10.3390/cells10071614. PMID: 34203264
5. Liaquat Z, Xu X, **Zilundu PLM**, Fu R, Zhou L. The Current Role of Dexmedetomidine as Neuroprotective Agent: An Updated Review. *Brain Sci*. 2021 Jun 25;11(7):846. doi: 10.3390/brainsci11070846. PMID: 34202110
6. **Zilundu PLM**, Chibhabha F, Yu G, Fu R, Zhou LH. Pre-Clinical Medical Students' Use of Motivational and Cognitive Study Strategies During Anatomy Learning: A Three-Year Cross-Sectional Survey. *Anat Sci Educ*. 2021 Mar 13. doi: 10.1002/ase.2070. Online ahead of print. PMID: 33715309
7. **Zilundu PLM**, Chibhabha F, Chengetanai S, Fu R, Zhou LH. Zimbabwean PreClinical Medical Students Use of Deep and Strategic Study Approaches to Learn Anatomy at Two New Medical Schools. *Anat Sci Educ*. 2021 Feb 19. doi: 10.1002/ase.2064. Online ahead of print. PMID: 33606357
8. Zhong K, Li Y, Tang Y, Yu G, **Zilundu PLM**, Wang Y, Zhou Y, Xu X, Fu R, Zhou L. Cytokine profile and glial activation following brachial plexus roots avulsion injury in mice. *J Neuroimmunol*. 2021 Apr 15;353:577517. doi: 10.1016/j.jneuroim.2021.577517. Epub 2021 Feb 4. PMID: 33582398
9. Tang Y, Li Y, Yu G, Ling Z, Zhong K, **Zilundu PLM**, Li W, Fu R, Zhou LH. MicroRNA-137-3p Protects PC12 Cells Against Oxidative Stress by Downregulation of Calpain-2 and nNOS. *Cell Mol Neurobiol*. 2021 Aug;41(6):1373-1387. doi: 10.1007/s10571-020-00908-0. Epub 2020 Jun 27. PMID: 32594381
10. Zhang JF, **Zilundu PLM**, Zhou L, Guo GQ. Supplementary Regional Anatomy Teaching by Surgeons Enhances Medical Students Mastery of Anatomical Knowledge and Positively Impacts Their Choice of Future Career. *J Surg Educ*. 2020 Sep-Oct;77(5):1113-1120. doi: 10.1016/j.jsurg.2020.03.016. Epub 2020 May 21. PMID: 32446769
11. Zhou LN, Wang JC, **Zilundu PLM**, Wang YQ, Guo WP, Zhang SX, Luo H, Zhou JH, Deng RD, Chen DF. A comparison of the use of adipose-derived and bone marrow-derived stem cells for peripheral nerve regeneration in vitro and in vivo. *Stem Cell Res Ther*. 2020 Apr 9;11(1):153. doi: 10.1186/s13287-020-01661-3. PMID: 32272974
12. Yu G, **Zilundu PLM**, Liu L, Zhong K, Tang Y, Ling Z, Zhou LH. ERR γ is downregulated in injured motor neuron subpopulations following brachial plexus root avulsion. *Exp Ther Med*. 2020 Jan;19(1):205-213. doi: 10.3892/etm.2019.8209. Epub 2019 Nov 18. PMID: 31853291
13. Yu G, **Zilundu PLM**, Xu X, Li Y, Zhou Y, Zhong K, Fu R, Zhou LH. The temporal pattern of brachial plexus root avulsion-induced lncRNA and mRNA expression prior to the motoneuron loss in the injured spinal cord segments. *Neurochem Int*. 2020 Jan;132:104611. doi: 10.1016/j.neuint.2019.104611. Epub 2019 Nov 26. PMID: 31783066
14. Cheng X, Yeung PKK, Zhong K, **Zilundu PLM**, Zhou L, Chung SK. Astrocytic endothelin-1 overexpression promotes neural progenitor cells proliferation and differentiation into astrocytes via the Jak2/Stat3 pathway after stroke. *J Neuroinflammation*. 2019 Nov 16;16(1):227. doi: 10.1186/s12974-019-1597-y. PMID: 31733648

15. Li X, Guan L, **Zilundu PLM**, Chen J, Chen Z, Ma M, Zhuang H, Zhuang Z, Qiu Y, Ye F, Wu X, Sang H, Ye Y, Han Y, Yao H, Li H, Zhong G, Wu H, Jiang Z, Chu G, Xu D, Zhou L. The applied anatomy and clinical significance of the proximal, V1 segment of vertebral artery. *Folia Morphol (Warsz)*. 2019;78(4):710-719. doi: 10.5603/FM.a2019.0039. Epub 2019 Apr 5. PMID: 30949997
16. Qiu Y, Wu X, Zhuang Z, Li X, Zhu L, Huang C, Zhuang H, Ma M, Ye F, Chen J, Wu Z, Yu X, An M, Chen R, Chen J, Guan L, Sang H, Ye Y, Han Y, Chen Z, Qin H, Zhu H, Zhou Y, **Zilundu PLM**, Xu D, Zhou L. Anatomical variations of the aortic arch branches in a sample of Chinese cadavers: embryological basis and literature review. *Interact Cardiovasc Thorac Surg*. 2019 Apr 1;28(4):622-628. doi: 10.1093/icvts/ivy296. PMID: 30445440
17. Sun JB, Li Y, Cai YF, Huang Y, Liu S, Yeung PK, Deng MZ, Sun GS, **Zilundu PLM**, Hu QS, An RX, Zhou LH, Wang LX, Cheng X. Scutellarin protects oxygen/glucose-deprived astrocytes and reduces focal cerebral ischemic injury. *Neural Regen Res*. 2018 Aug;13(8):1396-1407. doi: 10.4103/1673-5374.235293. PMID: 30106052
18. Li YQ, Song FH, Zhong K, Yu GY, **Zilundu PLM**, Zhou YY, Fu R, Tang Y, Ling ZM, Xu X, Zhou LH. Pre-Injection of Small Interfering RNA (siRNA) Promotes c-Jun Gene Silencing and Decreases the Survival Rate of Axotomy-Injured Spinal Motoneurons in Adult Mice. *J Mol Neurosci*. 2018 Jul;65(3):400-410. doi: 10.1007/s12031-018-1098-y. Epub 2018 Jul 10. PMID: 29992498
19. Li XZ, Chen J, Zhuang ZK, Ma MJ, Zhuang HJ, Qiu YM, Ye F, Wu XX, **Prince LM Zilundu**, Zhou LH, Xu DZ. A rare case of the dual origin of the right vertebral artery with an aortic arch origin of the left vertebral artery. *Eur. J. Anat*. 2018, 22 (5): 419-423.
20. **Zilundu PLM**, Zhou LH Gene therapy for root avulsion and spinal cord injuries-(Review Paper) *Journal of Jinan University Natural Science & Medicine Edition* 2017, Vol. 38 Issue (1): 1-12 DOI: 10.11778/j.jdxb.2017.01.001

Manuscripts Under review

21. Guan Lizhi, Dazheng Xu, Guoliang Chu, Lihua Zhou, Xiaozhi Lee, **Zilundu Prince LM** Absence of the left inferior thyroid artery: embryological, clinical implications and literature review *Journal of the Anatomical Society of India* (Under Review)
22. Ying-ying Zhou, **Zilundu Prince LM**, Rao Fu, Ying Tang, Ze-min Ling, Xiao-ying Xu, Li-hua Zhou ET1- overexpression drives astrogenesis and neurogenesis in the SGZ of the hippocampus post tMCAO stroke *Journal of Neuroscience* (Under Review)
23. Ouyang Lisi, **Zilundu Prince LM**, Luo Tao, Zhou Lina, Zheng Yifan, Chu Guoliang, Zhou Li-Hua 21st-century neuroanatomy teaching at two Chinese universities focusing on two health systems: Reflections on methods, materials, and relevance *Medical Teacher Journal* (Under review)
24. Xiaoying Xu, Zhiheng Ren, Ying Tang, **Prince L. M. Zilundu**, Yingying Zhou, Wenfu Li, Yu Huang, Jiawei Hou, Yixin Fu, Yunlin Mai, Zaara Liaquat, Xiao Cheng, Jiang-Hong Ye. Dexmedetomidine attenuates hyperalgesia induced by brachial plexus root avulsion by restoring the GLT- 1 function via PKA signaling. *Pharmacological Research Journal* (Under review)

	<p style="text-align: center;">2022 Manuscripts under preparation</p> <p>25. Zilundu PLM, Xu X, Liaquat Z, Wang Y, Zhong K, Fu R, Zhou L. c-Jun physically interacts with nNOS to mediate motor neuron apoptosis in motor neurons after brachial plexus</p> <p>26. Fidelis Chibhabha, Anesuishe B Gatsi, Tapiwa Chapupu, Josephine T Chidaushe, Prince LM Zilundu. A gendered view of learning anatomy during repeated covid-19 induced lockdowns: patriarchy, learning experiences and academic achievement</p> <p>27. Anesuishe B Gatsi, Tapiwa Chapupu, Josephine T Chidaushe, Fidelis Chibhabha, Prince LM Zilundu. An assessment of humanistic values training through dissection and gratitude ceremonies to honor body donors among medical students in Zimbabwe</p> <p>28. Tapiwa Chapupu, Anesuishe B Gatsi, Josephine T Chidaushe, Fidelis Chibhabha, Prince LM Zilundu. A phenomenological snippet into self-regulated learning of anatomy and student mental health during the Covid-19 lockdown period in Zimbabwe: Tales from two medical schools.</p>
REFEREES	
<p>Dr. T Mlambo Senior Lecturer</p> <p>Mrs A M Moyo Senior Lecturer</p> <p>Prof. Zhou Lihua (PhD Supervisor)</p>	<p>Department of Rehabilitation University of Zimbabwe P O Box A178 Avondale Harare Cell: + 263 772 263 521 E: teclamlambo@hotmail.com</p> <p>Department of Rehabilitation University of Zimbabwe P O Box A178 Avondale Harare Cell: + 263 712 407 641 E: mawereramoyo2002@yahoo.com</p> <p>Department of Anatomy Zhongshan School of Medicine, Sun Yat-sen University, 74 Zhongshan Road 2, Yuexiu District, Guangzhou China zhoulih@mail.sysu.edu.cn</p> <p style="text-align: center;">THE END</p>