

Lorena Y. Lopez, DPT

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Department of Health and Biomedical Sciences
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Curriculum Vitae

OBJECTIVE

Lecturer I in the Health and Biomedical Sciences Department at the University of Texas Rio Grande Valley seeking to continue contributing and improving health and biomedical science education. Fluent in Spanish speaking, reading, and writing.

EDUCATION

- The University of Texas Health Science Center at San Antonio August 2011 - May 2014
 - Doctor of Physical Therapy (DPT)
 - Bachelor of Science in Health Care Sciences
- The University of Texas at Brownsville August 2008 – May 2012
 - Bachelor of Science in Biology

WORK EXPERIENCE

- Full-Time Faculty (Lecturer I) January 2015 – present
Department of Health and Biomedical Sciences
The University of Texas Rio Grande Valley
- **Instructor for Online Course** Spring 2018
Ethics and Law for the Health Care Professional
 - Course explores and discusses the various legal aspects and ethical issues of concern to healthcare professionals. The course encompasses the code of ethics, importance of proper documentation, assisting dying patients and their families with the grieving process, ethical issues not only with patients but with their families, and coworkers.
 - **Instructor for Online Course** Fall 2017 - present
Patient Education in Health Sciences
 - Course regards the adult learning theories and concepts to develop appropriate teaching materials and programs for patients and their families that enhance client knowledge and skills for health promotion and recovery.
 - **Doctoral of Physical Therapy Program Development Committee** Spring 2016 - present
 - Chair of the committee. Duties include creating and sharing success points and ideas for the development of a physical therapy program at UT Rio Grande Valley. Duties also include submission and review of components for the proposal of the program.

- **Scholarship Review Committee** Fall 2016 - present
 - Member of the committee. Duties include reviewing BMED student essay submissions and recommending/nominating the top essays/students to the chair of the BMED department for further review and issuing of scholarships.

- **Hybrid Course Redesign** Spring 2016 – Fall 2016
 - Involved with the redesign process of hybrid courses including: Mission 2 (Molecules, Cells, and Tissues), and Introduction to Cell Biology. Duties include outlining course objectives, course competencies, assigning modules/units, creating activity patterns, assessments, creating and reviewing course syllabi and rubrics for assessments. Duties also include creation and review of introductions, instruction lines, book readings, and videos for course modules/units.

- **Lecturer for Mission 2 Hybrid Courses:** Fall 2015, Fall 2016, Fall 2017
Molecules, Cells, Tissues; Introduction to Cell Biology
 - Course explores the structure and function of the body, the basis of major pathologies and diseases at the molecular, cellular, organ, and system levels. Duties also included instructing students in the application of knowledge in defining and discussing biomedical related concepts.

- **Lecturer for Traditional Courses:** Spring 2015, Fall 2015, Fall 2016, Spring 2017
Pathophysiology, Gross Anatomy, Integrated Body Systems I, II, III, IV, and V
 - Course explores pathophysiology, embryology, histology, clinical gross anatomy and physiology of multiple body systems including cardiovascular/respiratory, gastrointestinal/nutrition, renal/urinary, endocrine/reproductive, and integumentary/musculoskeletal. Also involves student instruction and guidance in the identification of structures on anatomy models in the laboratory setting.

- **Hybrid Course Development** Fall 2015 – Spring 2016
 - Assisted with the design and development of hybrid courses including: Integrated Body Systems I, II, III, IV, V and Gross Anatomy. Duties included outlining course components, creation of lab activities, case studies, and other in-class activities along with review and approval of video and text course material.

- **Mission/Vision/Policies Committee** Spring 2016
 - Duties included reading through the latest documents on mission/vision of the Dept. of Health and Biomedical Sciences and submitting suggested changes/additions to the committee chair for approval.

- **Instructor for Hybrid Course:** Spring 2016, Fall 2017, Spring 2018
Introduction to Biomed II Lab (Lab Mission 2)
 - Course explores and involves human physiology simulated experiments, proper skills and safety techniques in utilization of laboratory equipment, dissection of animal specimens to view internal organs, basic clinical skills practice, and use of laboratory microscopes to examine slides of human anatomy/histology.

- **Lecturer for Mission 5 & 6 Hybrid Courses:** Spring 2016, Fall 2017, Spring 2018
Introductory Medical Neuroscience; Integrated Body Systems I, II, III, IV, and V
 - Course explores embryology, histology, anatomy and physiology of multiple human body systems including nervous system, cardiovascular, respiratory, gastrointestinal/nutrition, renal/urinary, endocrine/reproductive, and integumentary/ musculoskeletal. Also involves student instruction and guidance in the laboratory setting in the use of the microscope and other laboratory skills.

- **Lecturer for Hybrid Mission 7 Courses:** Spring 2016 and Spring 2017
Gross Anatomy; Introduction to Medical Physiology
 - Course explores all aspects of human functional as well as clinical gross anatomy and physiology. Also involves student instruction and guidance in the identification of structures on anatomy models in the laboratory setting.

- **Instructor for Online Course:** Fall 2015
Introduction to Biomed I Lab
 - Course explores aspects of biochemistry, genetics, and cell and molecular biology, and the application of these concepts via conduction of virtual labs and lab reports.

CLINICAL EXPERIENCE

University Hospital, San Antonio, Texas April 2014 – May 2014
Inpatient Physical Therapy Internship 4-week clinical rotation

- Collaborated with medical doctors, registered nurses, case managers, speech therapists, occupational therapists, physical therapist assistants, and other health care professional students in the evaluation, treatment, prognosis, and discharge planning of patients with various diagnosis including: total knee replacement, post stroke, post traumatic brain injury, and spinal cord injuries.
- Emphasized use of FIM scoring to justify patient progress and length of stay for continuation of service approval.
- Collaborated with physical therapists, physical therapist assistants, occupational therapists and speech therapists in creating the schedule for evaluations and treatments of patients every morning (5x a week).
- Conducted weekly reports in the presence of multidisciplinary staff to discuss patient's status.
- Provided recommendations on shoe wear and foot/ankle orthoses for patients presenting with: foot drop post CVA.
- Documented evaluations, treatments, patient progress, plan of care updates, and discharge notes on computerized documentation program, Sunrise system.

M.D. Anderson Cancer Center, Houston, Texas October 2013 – December 2013
Acute and Inpatient Physical Therapy Internship 10-week clinical rotation

- LSVT "Think BIG" Parkinson's In-service Presentation: discussed the most recent evidence based literature on "Think Big" therapy and demonstrated exercises used in the rehabilitation of patients with Parkinson's disease.
- Collaborated with wound care certified nurses in consults and treatments including the use of MIST therapy, Wound V.A.C., and general wound care/dressing.
- Collaborated with oncologists, nurse practitioners, registered nurses, case managers, speech therapists, occupational therapists, therapy techs, and NCS-certified therapists in the evaluation, treatment, prognosis, and discharge planning of patients with a variety of cancer related

diagnoses including: leukemia, meningioma, lymphoma, astrocytoma, and spinal cord tumors among many others.

- Conducted group therapy sessions that raised awareness on the benefits of strengthening key muscle groups of the upper and lower extremity, which are important for ambulation and other functional activities.
- Provided recommendations on shoe wear and foot/ankle orthoses for patients presenting with: leg length discrepancy post-surgical procedures and foot drop post CVA.
- Utilized FIM scoring to justify patient progress to insurance companies for continuation of service approval.
- Documented evaluations, treatments, patient progress, plan of care updates, and discharges on computerized documentation program, Medilinks.

Quentin Mease Community Hospital, Houston, Texas

July 2013 – October 2013

Outpatient Physical Therapy Internship

10-week clinical rotation

- Collaborated with FAAOMPT, OCS, NCS – certified therapists in evaluations and treatments of patients with primarily musculoskeletal dysfunction.
- Provided recommendations on shoe wear and foot/ankle orthoses for patients presenting with the following: plantar fasciitis, tibial stress syndrome, congenital leg length discrepancy and foot drop post CVA.
- Observed total hip replacement and fibular ORIF surgery at LBJ Hospital, Houston, TX.
- Observed and performed manual therapy techniques on non-surgical diagnoses such as: frozen shoulder, cervical stenosis, thoracic and lumbar hypomobility. Observed and performed manual therapy techniques on surgical diagnoses such as: rotator cuff repairs and total knee replacements.
- F.A.S.T Weight Management Program: Supervised patients performing physical activities in an outpatient gym setting. Monitored vital signs and modified exercises to better suit the needs of each individual. Educated patients on the importance of exercise and nutrition.
- Documented evaluations, treatments, plan of care updates, and discharges on computerized documentation program, EPIC.

South Texas Rehabilitation Hospital, Brownsville, Texas

May 2013 – July 2013

Inpatient Physical Therapy Internship

10-week clinical rotation

- Benign Paroxysmal Positional Vertigo (BBPV) rehabilitation in-service presentation: discussed the most recent evidence based literature on the evaluation, treatment, and prognosis in patients presenting with BBPV.
 - Collaborated with medical doctors, registered nurses, case managers, speech therapists, occupational therapists, physical therapy assistants, therapy techs, and NCS certified therapists in the evaluation, treatment, prognosis, and discharge planning of patients with a variety of diagnoses including: total knee replacement, total hip replacement, hip ORIF, post CVA, post CABG, and spinal cord injuries.
 - Utilized FIM scoring to justify patient progress to insurance companies for continuation of service approval.
 - Collaborated with occupational therapists and speech therapists in creating the schedule for evaluations and treatments of patients every morning (5x a week).
 - Documented evaluations, treatments, patient progress, plan of care updates, and discharge notes on computerized documentation program, ERNST Health system.
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AWARDS/HONORS

- Clinical Excellence Award of Doctoral of Physical Therapy Class May 2014
- Alpha Chi National College Honor Society Inductee/Member Fall 2010

RESEARCH

- Research Project: 2013 – 2014
- Education – Dealing with Ambiguity and Systems Thinking: To what extent does the doctor of physical therapy program at the University of Texas Health Science Center at San Antonio influence tolerance for ambiguity.
 - Collaborated with fellow physical therapy students to determine whether physical therapy clinical education/experience would influence ambiguity in clinical decision-making.
 - Research presented at APTA Combined Section Meeting in February 2015.

PROFESSIONAL AFFILIATIONS/CERTIFICATIONS

- Independent Applying the QM Rubric Certification 2017 - Present
- American Physical Therapy Association (APTA) 2011 - Present
- Texas Physical Therapy Association 2011 - Present
- Physical Therapy Alumni Association 2011 - Present
- Alpha Chi Honor Society 2010 - Present

PROFESSIONAL MEETINGS

- General Faculty Development: Flipped Learning and Mobile Technology November 2017
Edinburg, TX
- General Faculty Development: From Lecturing to Dynamic Lecturing November 2017
Brownsville, TX
- General Faculty Development: Strategies for Managing Your Life Demands October 2017
Brownsville, TX
- General Faculty Development: Service Learning/How Can I Use it in the Classroom March 2017
Brownsville, TX
- General Faculty Development: Technology/Extend Teaching Beyond Class November 2016
Brownsville, TX
- UT Rio Grande Valley College of Health Affairs Convocation August 2016, 2017
Edinburg, TX
- General Faculty Development: Peer Observation of Teaching January 2016
Brownsville, TX
- General Faculty Development: Academic Integrity/Cases-Scholastic Dishonesty February 2016
Brownsville, TX
- General Faculty Development: Student Behavior/Intervention Cases April 2016
Brownsville, TX
- General Faculty Development Program – Writing a Successful Abstract December 2015
Brownsville, TX
- American Physical Therapy Association (APTA) Combined Sections Meeting February 2014
Las Vegas, NV

- Texas Physical Therapy Association (TPTA) Central District Meeting
San Antonio, TX April 2013
- TPTA Legislative Day
Austin, TX February 2013
- TPTA Central District Meeting with silent auction: Neurological Presentation
San Antonio, TX October 2012
- TPTA Annual Conference & Student Conclave
San Antonio, TX October 2012
- TPTA Central District Meeting: Ethics Discussion
San Antonio, TX January 2012

PROFESSIONAL COURSES/WORKSHOPS

- Resilience, Time Management, Professionalism Workshops September – November 2017
- Multilingual Pedagogical Professional Development Workshops January-February 2017
- B3 Language Institute Workshop January 2017
- Applying the Quality Matters Rubric Workshop January 2017
- Resilience and Time Management Workshops September-November 2016
- Resilience and Positivity Workshops February-April 2015
- MS Webinar: MS 101 Spasticity and Multiple Sclerosis April 2013
- American Spinal Injury Association (ASIA)
Online Training for the International Standards Exam January 2013

PROFESSIONAL/COMMUNITY SERVICE

- **BFRI Research Symposium Judge** December 2017
 - Volunteered to be a judge for the Biomedical Freshman Research Initiative (BFRI) Symposium. I had the opportunity to judge 6 posters based on a set rubric. Furthermore, I provided feedback as well as advise on their projects and presentation skills.
- **UTRGV Freshmen Orientation** June and July 2017
 - Assisted with recruitment of freshmen students to the BMED program by providing talks regarding the admissions process and an overview of what the BMED program entails and the career opportunities it offers. Also assisted already accepted freshmen BMED students with fall course registrations and any other questions, issues they needed solved prior to transitioning to program.
- **BMED Advising Registration Session** April and May 2017
 - Assisted with BMED student advising by reviewing transcripts, schedules, student academic/career plans in order to ensure students stay on track and are successful within the BMED program.
- **BMED Success Academy** July 2016 and August 2017
 - Gave a presentation on problem solving and problem based learning to incoming BMED freshmen during their success academy week. The purpose of the presentation was to increase student awareness of learning expectations in the BMED program.

- **BMED Faculty Advisor** September 2016
 - Faculty advisor of a student organization named “Tutor for All”, of which a group of BMED students initiated. Through this organization, our BMED students provide tutoring in the areas of reading, math, and science to children from Proyecto Juan Diego, in Brownsville, Texas.
- **BMED Preadmission Session** April 2016 and 2017
 - Assisted with the BMED student freshmen orientation. A colleague and I organized a presentation for prospective BMED students. We spoke about the BMED program expectations, classroom environment, and opportunities for our students. We gave a case study presentation on coronary artery disease and guided students through its analysis.
- **A-Prime Time Mock Interviews** March 2016
 - Assisted with mock interviews for the A-Prime Time cohort 2 students, this was to help prepare students for interviews for conditional acceptance to medical schools at UTMB and UTHSCH.
- **A-Prime Time Student Prospect Presentation/Orientation** January 2016
 - Assisted as a facilitator; was available to address/direct questions and answers from prospect students and their parents both during and at the completion of the presentation given by Dr. Hugo Rodriguez, director of the A-PRIME TIME Program.
- **Coffee with the Doctor** October 2015
 - Guest speaker for the Biomedical Sciences Association where I had the opportunity to share my academic and professional achievements with A-PRIME TIME and BMED students.
- **Center for Civic Engagement, Brownsville, TX** Spring 2015 – Fall 2015
 - Participated in service learning events throughout the semester, representing the BMED Department and serving as a mentor to A-PRIME TIME and BMED students as they created/presented projects that educated the community on health-related topics.
- **Teaching Assistant, San Antonio, TX:** Spring 2014
 - Assisted faculty members with teaching gross anatomy to first year doctor of physical therapy students. I was responsible for dissecting the human body and teaching many structures (including bones, muscles, organs, nerves, and vessels)