

Moheb S. Shawky Yani

Curriculum Vitae
Last updated: August, 2022

I. BIOGRAPHICAL INFORMATION

CONTACT INFORMATION AND CITIZENSHIP:

Work Address: Division of Biokinesiology and Physical Therapy
University of Southern California
1540 E. Alcazar Street, CHP 155, Los Angeles, CA 90033
+1.323.442.0185 || moheb.yani@pt.usc.edu
ORCID: 0000-0001-8939-7339
Web of Science Researcher ID: ABE-9421-2021

Citizenship: The United States of America

ACADEMIC APPOINTMENTS:

August 2022 - Present **Clinical Assistant Professor of Physical Therapy**
Department of Physical Therapy
Crean College of Health and Behavioral Sciences
Chapman University

August 2022 - Present **Adjunct Assistant Professor of Research**
Division of Biokinesiology and Physical Therapy
University of Southern California

February 2021 - July 2022 **Assistant Professor of Research**
Division of Biokinesiology and Physical Therapy
University of Southern California

EDUCATION AND EMPLOYMENT HISTORY:

EDUCATION:

July 2017 - January 2021 **Postdoctoral Research Associate**
Division of Biokinesiology and Physical Therapy
University of Southern California
Advisor: Jason J. Kutch, PhD

May 2017 **Ph.D. in Biokinesiology**
Division of Biokinesiology and Physical Therapy
University of Southern California
Advisor: Jason J. Kutch, PhD

May 2007 **M.A. in Industrial Arts**
School of Design
San Francisco State University
Advisor: Ricardo Gomes, MFA

May 1997 **B.S.E. in Systems and Biomedical Engineering**
Faculty of Engineering
Cairo University

EMPLOYMENT HISTORY AND GRADUATE TRAINING:

- August 2022 - Present **Adjunct Senior Research Faculty**
Applied Movement & Pain Laboratory (Director: Jason J. Kutch, PhD)
Division of Biokinesiology and Physical Therapy
University of Southern California
Main Projects: Scientist of Chronic Pain Neuromodulation Clinical Trial ([NCT04734847](#)), Co-Investigator of Overactive Bladder Neuromodulation Study ([NCT05099419](#)), and Collaborator on resting muscle and brain function research to identify sensorimotor impairments in men with Chronic Prostatitis/Chronic Pelvic Pain Syndrome.
- February 2021 – July 2022 **Senior Research Faculty**
Applied Movement & Pain Laboratory (Director: Jason J. Kutch, PhD)
Division of Biokinesiology and Physical Therapy
University of Southern California
Main Projects: Lead Scientist and Project Manager of Chronic Pain Neuromodulation Clinical Trial ([NCT04734847](#)), Co-Investigator of Overactive Bladder Neuromodulation Study ([NCT05099419](#)), and Collaborator on resting muscle and brain function research to identify sensorimotor impairments in men with Chronic Prostatitis/Chronic Pelvic Pain Syndrome.
- July 2017 - January 2021 **Postdoctoral Research Associate**
Applied Movement & Pain Laboratory (Director: Jason J. Kutch, PhD)
Division of Biokinesiology and Physical Therapy
University of Southern California
Main Projects: Lead Scientist and Project Manager of the study “*Sensorimotor impairments in men with Chronic Prostatitis/Chronic Pelvic Pain Syndrome: relationship of resting state brain activity to pelvic floor muscle activation*” (R01 DK110669)
- August 2014 - May 2017 **Neuroimaging Graduate Research Assistant**
Multi-Disciplinary Approach to the Study of Chronic Pelvic Pain (MAPP) Research Network
David Geffen School of Medicine at UCLA / University of Southern California
(Principal Investigators: Emeran A. Mayer, MD and Larissa V. Rodriguez, MD)
- August 2012 - May 2017 **Doctoral Training - Graduate Research Assistant**
Applied Movement & Pain Laboratory (Director: Jason J. Kutch, PhD)
Division of Biokinesiology and Physical Therapy
University of Southern California
- August 2012 - May 2017 **Graduate Teaching Assistant**
Division of Biokinesiology and Physical Therapy
University of Southern California
- August 2011 - May 2012 **Graduate Research Assistant**
The Longitudinal Study of Generations (LSOG)
Leonard Davis School of Gerontology
University of Southern California

RESEARCH SUPPORT:

R01 DK121724
NIH/NIDDK

Kutch/Rodriguez (PI's)

07/01/2020 – 06/30/2025

Title: *Motor cortical neuromodulation in women with Interstitial Cystitis/Bladder Pain Syndrome: reducing pain by improving brain and muscle activity.*

This project tests if non-invasive brain stimulation can reduce Interstitial Cystitis/Bladder Pain Syndrome pain, and determines how the stimulation works to improve function in the body.

Role: Co-author as Postdoctoral Research Associate.

R01 DK110669
NIH/NIDDK

Kutch (PI)

02/01/2017 – 01/31/2021

Title: *Sensorimotor impairments in men with Chronic Prostatitis/Chronic Pelvic Pain Syndrome: relationship of resting state brain activity to pelvic floor muscle activation.*

This project tests the hypothesis that men with chronic pelvic pain have changes in resting brain function associated with changes in muscle control underlying the dysfunction in this disorder.

Role: Postdoctoral Research Associate.

U01 DK082370
NIH/NIDDK

Mayer/Rodriguez (PI's)

07/01/2014 – 06/30/2019

Title: *MAPP Research Network Second Phase.*

The goal of this study was to identify the clinical and phenotypic correlates of symptom change over a 3 year period in individuals with Urologic Chronic Pelvic Pain.

Role: Graduate Research Assistant.

ICA Pilot Grant 2016

Kutch (PI)

07/01/2016 – 06/30/2018

Interstitial Cystitis Association (ICA)

Title: *Cortical neuromodulation to reduce symptoms of Interstitial Cystitis/Painful Bladder Syndrome.*

This pilot study tested the ability of repetitive transcranial magnetic stimulation (rTMS) directed at motor cortical regions that control pelvic floor muscles to reduce symptoms and normalize brain function in women with Interstitial Cystitis/Painful Bladder Syndrome.

Role: Graduate Research Assistant then Postdoctoral Research Associate.

AWARDS AND HONORS (declined due to unexpected COVID-19 pandemic):

- 2020 - 2021 T32 Training Grant for Interdisciplinary Research Training in Pain and/or Substance Use Disorders, National Institute on Drug Abuse (NIDA), NIH – Stanford Medicine – Stanford University.
- 2020 - 2021 Research Fellow position in the Department of Radiology, Athinoula A. Martinos Center for Biomedical Imaging. Harvard Medical School and Massachusetts General Hospital.

AWARDS AND HONORS:

- 2022 In-person Oral Presentation Invitation & Top Ranked Abstract, 2022 Combined Sections Meeting (CSM).
- 2022 In-person Oral Presentation Invitation & Top Ranked Abstract, North American Neuromodulation Society (NANS) Annual Meeting.
- 2021 In-person Oral Presentation Invitation & Top Ranked Abstract, 24th Annual Scientific Meeting of International Pelvic Pain Society (IPPS).
- 2021 In-person Oral Presentation Invitation & Top Ranked Abstract, North American Neuromodulation Society (NANS) Mid-Year Meeting. [*Declined to due to non-essential travel guidelines during COVID-19 pandemic*]
- 2019 Hot Topic Abstract, Society for Neuroscience Annual Meeting.
- 2019 Judge. Herman Ostrow School of Dentistry Research Day, USC.
- 2017, 2018 Postdoctoral Scholar Training & Travel Award, USC Office of Postdoctoral Affairs.
- 2017 In-person Oral Presentation Invitation & Top Ranked Abstract, 3rd World Congress on Abdominal & Pelvic Pain and International Pelvic Pain Society Annual Meeting on Chronic Pelvic Pain.
- 2015 1st Place Biokinesiology Student Award, USC Herman Ostrow School of Dentistry Research Day.

- 2011 - 2012 USC Leonard Davis School of Gerontology Scholarship Award and USC Associate Scholarship Award, Graduate Studies in Gerontology.
- 2010 - 2011 USC Leonard Davis School of Gerontology David A. Peterson Scholarship Award, Graduate Studies in Gerontology.

MEMBERSHIP AND RECENT ACTIVITIES WITHIN PROFESSIONAL ORGANIZATIONS:

- 2022 Participant. NIH “Neurocognitive Mechanisms of Structural Racism” Meeting.
- 2022 Scientific Reviewer. Journal of Neurotrauma, Motor Control, Translational Neuroscience, Pain, Journal of Neurophysiology.
Verified reviews at: <https://publons.com/researcher/4826599/moheb-yani/>
- 2021-2022 Member. USC Division of Biokinesiology and Physical Therapy:
- EDI Curriculum Task Force (Lead: Dr. Noriko Yamaguchi)
 - BKN Program University Committee of Academic Review (UCAR) Working Group (Lead: Dr. Carolee Winstein)
 - Division Ranking Group (lead by Dr. Yogi Matharu)
- 2021 Participant. USC Division of Biokinesiology and Physical Therapy:
- Diversity, Anti-Racism, Inclusion, and Community Engagement (DARIC):
 - Faculty & Staff Survey Results: *Individual Knowledge and Skills on Equity & Racism*.
 - Faculty & Staff Development Speaker Series: *Dr. Dru Bhattacharya, Advancing Health Equity in Policy and Practice*.
 - Inclusion, Diversity and Equity Accountability (IDEA):
 - Workshop Series.
 - Faculty & Staff Training: *Daryl G. Smith, Diversity as an imperative for excellence: building capacity in a pluralistic society*.
 - Exploring Anti-Racism (EAR) Workshop Series.
 - *Actions Speak Louder than Words: A Division’s Journey Towards Anti-Racism*. Workshop, Diversity, Equity and Inclusion Awareness Week.
 - Equity, Diversity, Inclusion, and Anti-Racism Year in Review and Community Gathering.
 - Faculty Mentoring Workshop Series.
 - DPT Application Review Boot Camp – user of PT-CAS, WebAdMIT, and Liaison Academy.
- 2021 Participant. USC:
- Center for Excellence in Teaching: *Teaching the Newest Generation of USC Students Workshop*, Diversity, Equity and Inclusion Awareness Week.
 - Diversity and Inclusion Executive Steering Committee: *Mindfulness and resilience in the context of prejudice*.
 - Culture Journey: *Community Panel on “Diversity, Equity and Inclusion”*.
- 2021 Participant. Josiah Macy Jr. Foundation: *Racist Patients: Taking Action on Harmful Bias and Discrimination in Clinical Learning Environments*.
- 2021 Participant. DMH + UCLA Wellbeing for LA Learning Center: *Chronic Pain and Stress in Youth: From Trauma to Resilience* Training.
- 2021 Participant. NIH Pain Consortium Grant-Mechanism Webinar Series.
[<https://www.painconsortium.nih.gov/meetings-events/seminars-workshops/nih-pain-consortium-grant-mechanism-webinar-series>]
- 2021 ABCD-ReproNim Project Week.

- 2020 - 2021 Participant. ABCD-ReproNim Course. Training for reproducible analyses of the Adolescent Brain Cognitive Development (ABCD) Study data.
[<https://www.abcd-repronim.org/index.html>]
- 2020 Participant. Developing Meaningful Endpoints for Pain Clinical Trials Workshop, Helping to End Addiction Long-term (HEAL), NINDS, NIH.
[<https://event.roseliassociates.com/2020MeaningfulEndpoints/general-information>]
- 2020 Participant. The FMRIB Software Library (FSL, Oxford, UK) Annual Training.
[<http://fsl.fmrib.ox.ac.uk/fslcourse/online.html>]
- 2020 Participant. Future Faculty Teaching Institute, USC Center for Excellence in Teaching.
[<http://cet.usc.edu/institutes/future-faculty-teaching-institute/>]
- 2019 - 2020 Mentor and Mentee. The Organization for Human Brain Mapping (OHBM) Student and Postdoc Student Interest Group (SIG) International Online Mentoring Program.
[<https://www.ohbmtrainees.com>]
- Member American Physical Therapy Association, The American Council of Academic Physical Therapy, North American Neuromodulation Society, International Continence Society, Society for Neuroscience, International Pelvic Pain Society, Society for the Neural Control of Movement, American Society on Aging, Industrial Designers Society of America.

II. SCHOLARLY ACTIVITY

PUBLICATIONS:

PEER-REVIEWED JOURNAL ARTICLES – ORIGINAL RESEARCH:

Verified publications at: <https://publons.com/researcher/4826599/moheb-yani/>

- 2022 **Yani MS**, Eckel SP, Kirages DJ, Rodriguez LV, Corcos DM, Kutch JJ. Impaired Ability to Relax Pelvic Floor Muscles in Men with Chronic Prostatitis/Chronic Pelvic Pain Syndrome. *Phys Ther.* 2022 May.
Journal Impact Factor (2022) = 3.021
- 2021 McLain N, **Yani MS**, Kutch JJ. Analytic consistency and neural correlates of peak alpha frequency in the study of pain. *Journal of Neuroscience Methods.* 2021 Dec 24:109460.
Journal Impact Factor (2021) = 2.39
- 2020 **Yani MS***, Hegarty AK*, Albishi A, Michener LA, Kutch JJ. Salience network functional connectivity is spatially heterogeneous across sensorimotor cortex in healthy humans. *Neuroimage*, 221: 117177. * Equal contribution.
Journal Impact Factor (2020) = 5.902
- 2019 **Yani MS**, Fenske SJ, Rodriguez LV, Kutch JJ. Motor cortical neuromodulation of pelvic floor muscle tone: Potential implications for the treatment of urologic conditions. *Neuourology and Urodynamics*, 38(6):1517-23.
Journal Impact Factor (2019) = 2.630
- 2018 **Yani MS**, Wondolowski JH, Eckel SP, Kulig K, Fisher BE, Gordon JE, Kutch JJ. Distributed representation of pelvic floor muscles in human motor cortex. *Scientific Reports*, 8(1): 7213.
Journal Impact Factor (2018) = 4.122
- 2015 Rana M, **Yani MS**, Asavasopon S, Fisher BE, Kutch JJ. Brain connectivity associated with muscle synergies in humans. *The Journal of Neuroscience*, 35(44):14708-16.
Journal Impact Factor (2015) = 5.924
- 2015 Kutch JJ, **Yani MS**, Asavasopon S, Kirages DJ, Rana M, Cosand L, Labus JS, Kilpatrick LA, Ashe-McNalley C, Farmer MA, Johnson KA, Ness TJ, Deutsch G, Harris RE, Apkarian AV, Clauw DJ, Mackey SC, Mullins C, Mayer EA. Altered resting state neuromotor

connectivity in men with chronic prostatitis/chronic pelvic pain syndrome: A MAPP Research Network Neuroimaging Study. *NeuroImage: Clinical*, 8(0):493-502.
Journal Impact Factor (2015) = 3.857

- 2015 Roll SC, Rana M, Sigward SM, **Yani MS**, Kirages DJ, Kutch JJ. Reliability of superficial male pelvic floor structural measurements using linear-array transperineal sonography. *Ultrasound in Medicine & Biology*, 41:610-7.
Journal Impact Factor (2015) = 2.298
- 2014 Asavasopon S, Rana M, Kirages DJ, **Yani MS**, Fisher BE, Hwang DH, Lohman EB, Berk LS, Kutch JJ. Cortical activation associated with muscle synergies of the human male pelvic floor. *The Journal of Neuroscience*, 34(41):13811–13818.
Journal Impact Factor (2014) = 6.344

PEER-REVIEWED JOURNAL ARTICLES – IN PREPARATION:

- 2022 **Yani MS**, Kutch JJ. Chronic Pain Intensity and Affect Dissociate in Fronto-Parietal Networks.
- 2022 **Yani MS**, Kutch JJ. Neural correlates of impaired ability to relax pelvic floor muscles in men with Chronic Prostatitis/Chronic Pelvic Pain Syndrome.

DISSERTATION AND THESIS:

- 2017 *Structuring of muscle coordination by distinct neural populations in human motor cortex*, Biokinesiology, University of Southern California. Advisor: Jason Kutch.
- 2007 *Design of prescription medication packaging to facilitate aging consumer compliance*, Industrial Arts, San Francisco State University. Advisor: Ricardo Gomes.
- 1997 *Human identification and verification using the iris print*, Systems and Biomedical Engineering, Cairo University.

SCHOLASTIC PERFORMANCE:

- 4.00 Cumulative GPA Doctor of Philosophy in Biokinesiology, completed 05/2017.
- 4.00 Cumulative GPA Graduate studies in Gerontology, 08/2010-05/2012, then started Ph.D. in 08/2012.
- 3.97 Cumulative GPA Master of Arts in Industrial Arts, completed 05/2007.
- 3.68 Cumulative GPA Bachelor of Systems and Biomedical Engineering, completed 11/1997.

PUBLIC PRESENTATIONS:

INVITED, INTERNATIONAL:

- 2022 *Impaired Ability to Relax Pelvic Floor Muscles in Men with Chronic Prostatitis/Chronic Pelvic Pain Syndrome*. Pelvic Health Section, the 2022 Combined Sections Meeting (CSM), San Antonio, TX, February 2-5, 2022.
- 2022 *Cortical Neuromodulation of Pelvic Floor Muscle Tone: A Proof-of-Concept Study*. The 2021 North American Neuromodulation Society (NANS) Annual Meeting, Orlando, FL, January 13-15, 2022.
- 2021 *Altered Function and Structure of Left Dorsolateral Prefrontal Cortex in Men with Chronic Prostatitis/Chronic Pelvic Pain Syndrome*. 24th Annual Scientific Meeting of International Pelvic Pain Society (IPPS), Baltimore, MD, October 21-24, 2021.
- 2021 *Cortical Neuromodulation of Pelvic Floor Muscle Tone: A Proof-of-Concept Study*. The 2021 North American Neuromodulation Society (NANS) Mid-Year Meeting, Orlando, FL, July 15-17, 2021. *Declined due to COVID-19 pandemic*.

- 2018 *Mapping and modulating brain networks of pelvic floor muscle control.* The International Continence Society (ICS) Conference, Physiotherapy Forum, Philadelphia, PA, August 28-31, 2018.
- 2017 *Contribution of human motor cortex to Interstitial Cystitis/Painful Bladder Syndrome: a pilot neuromodulation study guided by motor cortical control of pelvic floor muscles.* 3rd World Congress on Abdominal & Pelvic Pain and International Pelvic Pain Society (IPPS) Annual Meeting on Chronic Pelvic Pain, Washington DC, October 12-14, 2017.

INVITED, NATIONAL:

- 2021 *fMRI methodologies in chronic pain research.* Doctor of Physical Therapy Program, Alvernia University, Reading, PA, October 4, 2021.
- 2019 *Motor cortical control of muscle tone: evidence from the pelvic floor in humans.* Department of Physical Therapy, University of Nevada, Las Vegas, NV, February 14, 2019.

INVITED, CALIFORNIA:

- 2020 *A multimodal approach to understand and target sensorimotor alterations in chronic pelvic pain.* Systems Neuroscience and Pain Laboratory, Stanford University, March 11, 2020.
- 2019 *Cortical neuromodulation to target sensorimotor alterations in chronic pelvic floor dysfunction.* School of Exercise and Nutritional Sciences, San Diego State University, December 5, 2019.
- 2019 *Cortical modulation of muscle tone.* Biokinesiology and Physical Therapy Neuro-Rehabilitation Seminar, USC, November 8, 2019.
- 2017 *Contribution of human motor cortex to Interstitial Cystitis/Painful Bladder Syndrome: a pilot neuromodulation study guided by motor cortical control of pelvic floor muscles.* Center for the Neurobiology of Stress and Resilience, University of California, Los Angeles, October 2, 2017.
- 2017 *Structuring of muscle coordination by distinct neural populations in human motor cortex.* Motor Control Day, sponsored by Dr. Nicolas Schweighofer during the visit of Dr. Reza Shadmehr, USC, January 17, 2017.
- 2016 *Motor cortical control of pelvic floor muscles.* Biokinesiology and Physical Therapy Student Division Seminar, USC, April 20, 2016.
- 2014 *Non-volitional cortical control of the pelvic floor, toward improving treatment for chronic pelvic pain.* Biokinesiology and Physical Therapy Student Division Seminar, USC, November 25, 2014.
- 2014 *Unconscious determinants of free decisions in the human brain.* Biokinesiology and Physical Therapy Locomotor Control Laboratory Journal Club, USC, March 24, 2014.
- 2013 *Is chronic pain associated with intrinsic changes in the brain?* Biokinesiology and Physical Therapy Student Division Seminar, USC, October 29, 2013.

SELECTED PUBLISHED ABSTRACTS:

- 2022 **Yani MS**, Eckel SP, Kirages DJ, Rodriguez LV, Corcos DM, Kutch JJ. Impaired Ability to Relax Pelvic Floor Muscles in Men with Chronic Prostatitis/Chronic Pelvic Pain Syndrome. *The 2022 Combined Sections Meeting (CSM)*, San Antonio, TX, February 2-5, 2022.
- 2022 **Yani MS**, Fenske SJ, Rodriguez LV, Kutch JJ. Cortical Neuromodulation of Pelvic Floor Muscle Tone: A Proof-of-Concept Study. *2022 North American Neuromodulation Society (NANS) Annual Meeting*. Orlando, FL, January 13-15, 2022.
- 2021 McLain NJ, **Yani MS**, Kutch JJ. Analytic consistency and neural correlates of peak alpha frequency in the study of pain. *Society for Neuroscience (SfN) Annual Meeting*. Virtual. November 13-16, 2021.

- 2021 **Yani MS** & Kutch JJ. Altered Function and Structure of Left Dorsolateral Prefrontal Cortex in Men with Chronic Prostatitis/Chronic Pelvic Pain Syndrome. *24th Annual Scientific Meeting of International Pelvic Pain Society (IPPS)*, Baltimore, MD, October 21-24, 2021.
- 2019 **Yani MS***, Hegarty AK*, Albishi A, Michener LA, Kutch JJ. Salience network functional connectivity is spatially heterogeneous across sensorimotor cortex in healthy humans. *Society for Neuroscience (SfN) Annual Meeting*, Chicago, IL, October 19-23, 2019.
* Equal contribution.
- 2019 **Yani MS** and Kutch JJ. Motor cortical control of muscle tone: evidence from the pelvic floor in humans. *Society for the Neural Control of Movement (NCM) Annual Meeting*, Toyama, Japan, April 24-27, 2019.
- 2017 **Yani MS**, Fenske S, Kutch JJ. Contribution of human motor cortex to Interstitial Cystitis/Painful Bladder Syndrome: a pilot neuromodulation study guided by motor cortical control of pelvic floor muscles. *3rd World Congress on Abdominal & Pelvic Pain and International Pelvic Pain Society (IPPS) Annual Meeting on Chronic Pelvic Pain*, Washington DC, October 12-14, 2017.
- 2017 **Yani MS**, Wondolowski JH, Eckel SP, Kulig K, Fisher BE, Gordon JE, Kutch JJ. Structuring of muscle coordination by distinct neural populations in human motor cortex. *Society for the Neural Control of Movement (NCM) Annual Meeting*, Dublin, Ireland, May 2-5, 2017.
- 2016 **Yani MS**, Gordon J, Eckel SP, Kirages DJ, Asavasopon S, Kutch JJ. Cortical activation associated with automatic control of pelvic floor muscles in women. *Society for Neuroscience (SfN) Annual Meeting*, San Diego, CA, November 12-16, 2016.
- 2015 Rana M, **Yani MS**, Asavasopon S, Fisher BE, Kutch JJ. Brain connectivity associated with muscle synergies in humans. *Society for Neuroscience (SfN) Annual Meeting*, Chicago, IL, October 17-21, 2015.
- 2014 Rana M, Asavasopon S, Kirages DJ, **Yani MS**, Fisher BE, Lohman EB, Berk LS, Kutch JJ. Cortically-facilitated muscle synergies of the human pelvic floor. *44th Annual Meeting of the Society for Neuroscience (SfN)*, Washington DC, November 15-19, 2014.
- 2014 Asavasopon S, Rana M, Kirages DJ, **Yani MS**, Lohman EB, Berk LS, Kutch JJ. Brain activation associated with decoupling muscle synergies of the human pelvic floor. *44th Annual Meeting of the Society for Neuroscience (SfN)*, Washington DC, November 15-19, 2014.
- 2013 **Yani MS**, Cosand L, Rana M, Kirages D, Kutch JJ. The neural representation of the pelvic region and its implications for localizing the source of chronic pelvic pain. *23rd Annual Meeting of the Society for the Neural Control of Movement (NCM)*, San Juan, Puerto Rico, April 16-20, 2013.

III. TEACHING AND MENTORING ACTIVITIES

COURSES PRESENTED:

Summer 2023	PT 539 (CD): Physical Agents
Spring 2023	PT 643-643L (I): Motor Control and Motor Learning
Fall 2022	PT 650 (I): Scientific Inquiry
	PT 670 (CD): Cultural Diversity and Psychology in Health Care
	PT 684 (CD): Physical Therapy and the HC System
	PT 689 (CD): Service Learning
	PT 712 (CD): Pharmacology
	PT 752 (I): Scientific Inquiry
	PT 753 (I): Scientific Inquiry

PT 770 (CD): Leadership, Administration, Management and Policy

PT 789 (CD): Service Learning

Doctor of Physical Therapy, Department of Physical Therapy, Chapman University

Role: Instructor (I) or Course Director (CD)

Fall 2021 **DPT 890 Special Topics: Advanced Patient Outcomes Through the Use of Clinical Technologies**

Doctor of Physical Therapy Program, Alvernia University, Reading, PA

Course Directors: Soo Sun, Staci Silar

Role: Guest Lecturer – “*fMRI methodologies in chronic pain research*”, October 4, 2021.

Spring 2020 **BKN-559: Independent Study in Functional Neuroanatomy with Lab Dissection**

USC Division of Biokinesiology and Physical Therapy

Course Director: Nina Bradley

Role: Mentee – preparation to teach neuroanatomy to Doctor of Physical Therapy students. Regional and systems neuroanatomy, with a special attention to the neuroanatomical basis of the sensory, motor, autonomic and limbic systems, as well as, the meningeal and vascular structures. In-lab and online activities were mentee-lead exercises that included extraction, examination and dissection of human brain tissue, as well as, neural pathways.

Spring 2016 **PT-566: Disorders of the Musculoskeletal System**

USC Division of Biokinesiology and Physical Therapy

Course Directors: Susan Sigward and Kyle Baldwin

Role: Graduate Teaching Assistant.

Taught to first-year Doctor of Physical Therapy students. Regional description of pathology and pathophysiological mechanisms of disorders of bone, connective tissue, and joints.

August 2015 **Transcranial Magnetic Stimulation Methods & Practice (no units)**

August 2014 USC Division of Biokinesiology and Physical Therapy

Course Director: Beth Fisher

Role: Instructor – created my own lectures and labs.

Four-day intensive training course in the theory and practice underlying the use of TMS in brain research. The course used both lecture and laboratory format.

Spring 2014 **PT-569: Principles of Neuroscience (4 units)**

USC Division of Biokinesiology and Physical Therapy

Course Director: Jason Kutch

Role: Graduate Teaching Assistant.

Taught to second-year Doctor of Physical Therapy students. Neuroscience taught from a basic science perspective with examples from physical therapy practice.

Fall 2006 **ARAB-101: First Semester Arabic (4 units)**

Fall 2006 **ARAB-102: Second Semester Arabic (4 units)**

SFSU Department of Modern Languages and Literatures

Course Director: Mohammad Salama

Role: Graduate Teaching Assistant.

Basic elementary Arabic. Conversation in the language, diction, reading, study of the fundamentals of grammar, simple oral and written exercises, and an introduction to Arabic-speaking cultures. Arabic (ARAB 102) was a continuation of Arabic (ARAB 101).

Mentorship within the Applied Movement & Pain Laboratory (AMPL):

I anticipate mentoring DPT students at Chapman University in 2022-2023.

I mentored the following individuals in my capacity as the lead scientist in Jason Kutch's lab, AMPL.

Non-academic Mentor and Supervisor:

2020 - Present **Giselle Garcia**

- Southern California Clinical and Translational Science Institute (SC CTSI) clinical research coordinator for NIH-funded project (R01 DK121724)
- 2018 - 2020 **Laura Solano**
Southern California Clinical and Translational Science Institute (SC CTSI) clinical research coordinator for NIH-funded project (R01DK110669)
- 2017 - 2018 **Erin Fitzgerald**
Clinical research coordinator for NIH-funded project (R01DK110669)

Medical Fellows Mentor:

- 2020 - July 2022 **Rita Jen**
Fellow in Female Pelvic Medicine and Reconstructive Surgery at USC Institute of Urology (Dr. Larissa Rodriguez is the Dr. Jen's primary mentor)
Mentorship in neuromodulation research in chronic urologic conditions, and CO-PI of the study: *Motor Cortical Neuromodulation With Repetitive Transcranial Magnetic Stimulation in Women With Overactive Bladder and Urgency Incontinence*.

Doctoral Students Mentor:

- 2021 - Present **Pooja Iyer**
USC Biokinesiology Ph.D. Program
- 2019 - July 2022 **Natalie McLain**
USC Biokinesiology Ph.D. Program
- 2014 - 2020 **Sonja Fenske**
USC Neuroscience Graduate Program
- 2014 - 2019 **Alaa Albishi**
USC Biokinesiology Ph.D. Program

USC Doctor of Physical Therapy (DPT) Students Mentor:

- 2021 **Jennifer Shan**
Assisting with data collection for NIH-funded project (R01 DK121724)
- 2021 **Eric Gasmin**
Assisting with data analysis for NIH-funded project (R01 DK110669)
- 2017 - 2018 **Gail Suchoknand**
Assisted in data collection for NIH-funded project (R01 DK110669)
- 2017 - 2018 **Tessa Richards**
Assisted in data collection for NIH-funded project (R01 DK110669)
- 2017 - 2018 **Chen Yang**
Assisted in data collection for NIH-funded project (R01 DK110669)
- 2017 - 2018 **Alexandra Walker**
Assisted in data collection for NIH-funded project (R01 DK110669)
- 2016 - 2017 **Abbie Bell**
Assisted in data collection for Moheb Yani's Ph.D. Dissertation
- 2016 - 2017 **Joyce Wondolowski**
Assisted in data collection for Moheb Yani's Ph.D. Dissertation

- 2015 - 2016 **Rashi Agrawal**
Assisted in data collection for Moheb Yani's Ph.D. Dissertation
- 2015 - 2016 **Melanie Goya**
Assisted in data collection for Moheb Yani's Ph.D. Dissertation

Undergraduate Students Mentor:

- 2021 - 2022 **Tj Anand, Alice Cho, Arike Coker, Julia Gloria, Olivia Means, Lauren Tomita**
USC Center for Undergraduate Research in Viterbi Engineering (CURVE) Fellowship
Assisting with multiple projects at AMPL
- 2012 - 2014 **Harjot Hansra**
USC Undergraduate Neuroscience Program
Assisted in data collection for Moheb Yani's Ph.D. Dissertation

High-School Students Mentor:

- 2014 - 2015 **Stephanie Salome**
Engineering Health Academy, Francisco Bravo Medical Magnet High School