

CURRICULUM VITAE

Brian Anthony Rooney

Clinical Assistant Professor
Binghamton University
Division of Physical Therapy
Decker College of Nursing and Health Sciences

Education:

Degree: PhD
Institution: University of Texas, Medical Branch, at Galveston TX
Major: Neuroscience
Date awarded: April 2010

Degree: BA
Institution: Trinity College Dublin, Ireland
Major: Zoology
Date awarded: September 2001

Licensure Information:

State and Registration Number: N/A

Certifications (eg, ABPTS):

N/A

Employment and Positions Held:

Clinical Assistant Professor
Non-Tenure Eligible
Division of Physical Therapy
Binghamton University
Binghamton NY
Duration (from 2021 to Present)

Lecturer of Human Anatomy and Physiology
Non-Tenure Eligible
Department of Biological Sciences
Binghamton University
Binghamton NY
Duration (from 2018 to 2021)

Adjunct Lecturer in Head and Neck Anatomy
Savannah Technical College
Savannah GA
Duration (from 2015 to 2018)

Lecturer of Human Anatomy and Physiology

Non-Tenure Eligible
Department of Biology
Georgia Southern University
Savannah GA
Duration (from 2014 to 2018)

Adjunct Professor of Human Anatomy and Physiology
Georgia Perimeter College
Clarkston GA
Duration (from 2013 to 2014)

Postdoctoral Fellow
Department of Biomedical Engineering
Georgia Institute of Technology
Atlanta GA
Duration (from 2010 to 2014)

Peer Reviewed Publications:

Rooney B and O'Brien SR. *Sensory-Motor I: Differentiating Conscious and Unconscious Sensory-Motor Connections.* In Compendium for Teaching Physical Therapy Neurologic Content (v. 2026). Alexandria, VA: Academy of Neurologic Physical Therapy.

Rooney B and O'Brien SR. *Sensory-Motor II: Investigation into Dynamic Movement.* In Compendium for Teaching Physical Therapy Neurologic Content (v. 2026). Alexandria, VA: Academy of Neurologic Physical Therapy.

Rooney B and O'Brien SR. *Arterial Supply to the Central Nervous System.* In Compendium for Teaching Physical Therapy Neurologic Content (v. 2026). Alexandria, VA: Academy of Neurologic Physical Therapy.

Rooney B.A., Crown E.D., Hulsebosch C.E. and McAdoo D.J. Preemptive analgesia with lidocaine prevents Failed Back Surgery Syndrome. *Exp Neurol.* 204(2):589-96, 2007. Epub 2006 Dec 20.

Peer Reviewed Scientific and Professional Presentations:

Presenter(s): Strizak A., MacDonald G. and Rooney B.
Title: Predicting Anatomy Grades Using Holistic Admissions.
Occasion: Submitted to the American Physical Therapy Association (APTA)
Combined Sections Meeting, Houston, TX - Not Accepted
Date: February, 2025

Presenter(s): Rooney B., Murphy M, and Cherry J.
Title: Student Opinion of the Use of a Non-Cadaver Anatomy Lab within a DPT Curriculum.
Occasion: Submitted to the American Physical Therapy Association (APTA)
Combined Sections Meeting, Houston, TX - Not Accepted
Date: February, 2025

Presenter(s): Brian Rooney
American Spinal Injury Association (ASIA): "Treatment Strategies for Improved Recovery after Spinal Cord Injury" workshop. June 20th 2008

Presenter(s): Brian Rooney
Anesthesia and Neuroscience Combined Conference (ANCC), University of Texas, Medical Branch, Galveston Texas. June 2007.

Funded/In Review Grant Activity:

Funding for Graduate and Postdoctoral Studies:

Authorship/participation: Michelle LaPlaca and Brian Rooney

Amount of funding award: \$50,000-100,000

Nature of project: A mouse model of Traumatic Brain Injury

Date and source: 2011- 2014, Seed Grant from Parker H. Petit for Bioengineering and Bioscience at Georgia Institute of Technology.

Authorship/participation: Claire Hulsebosch and Brian Rooney

Amount of funding award: N/A

Nature of project: Rat model of spinal cord injury

Date and source: 2010 - 2011, NIH Grant NS061153.

Authorship/participation: Claire Hulsebosch and Brian Rooney

Amount of funding award: N/A

Nature of project: An investigation of the ability of Decorin infusion to promote axon regeneration and restoration of function after cauda equina injury in adult rats.

Date and source: 2005-2006: Mission Connect – The Institute for Rehabilitation and Research (TIRR) Foundation

Current/Active Research Activity:

Authorship: Rooney B

Nature: Dr Rooney created a PT anatomy preparatory class being offered online to all incoming BU DPT students. This free and optional pre-matriculation course is intended to increase the overall level of prerequisite anatomical knowledge within each new cohort, prior to starting Human Anatomy. The course ran for the first time in Spring 2025. Scholarship on this topic will attempt to link participation in this course with success in Human Anatomy. Every new cohort will raise the sample size and increase the power of any statistical analysis. This area of research is expected to produce a minimum of 1 scholarly product within 2 years.

Funding: Internal

Authorship: Rooney B., O'Brien S., Strizak A. and Cherry J.

Nature: In January 2025 research teams were created in order to increase scholarly productivity across the division. Dr Rooney is now a member of the Student Success team along with Drs Cherry, O'Brien and Strizak. 3 members of the team are each taking the lead on one research question, with all the members of the team taking a supporting, co-authorship role. The research questions are as follows:

- Do MAL survey scores change over time in DPT students beginning their training? Dr O'Brien
- Do student demographics, interview score, age, pre-req GPA (PTCAS) correlate with MAL scores? Dr Strizak
- Does student resilience and growth mindset predict gross anatomy scores in DPT students? Dr Rooney

Working in a team like this is already proving to be an efficient way of moving scholarship forward. The team feels confident that a minimum of 3 scholarly products will be produced by this team over the next 12 months.

Funding: Internal

Membership in Scientific/Professional Organizations:

American Physical Therapy Association (APTA)

Duration: from 2025 to Present

Expired memberships:

Society for Neuroscience

Duration: from 2004 to 2014

National Neurotrauma Society

Duration: from 2004 to 2014

Consultative and Advisory Positions Held:

None

Community Service:

None at this time.

Services to the University/College/School on Committees/Councils/Commissions:

University-wide:

Dates: 2021 - Present

Marketing & Lab Tours for VIP donors and school groups. Dr. Rooney has given dozens of personal and group tours of our cutting-edge anatomy teaching lab, thus increasing recognition and funding for the university.

Member of the Founding Faculty of the Division of Physical Therapy. For example, contributing to the application for candidacy for the Doctor of Physical Therapy Program.

Letters: Completed 8 reference letter submissions for 6 different undergraduate students.

School:

Dates: 2021 - 2023

Designed and set up, purchased equipment (valued at \$600,000) for and taught in a new Anatomy and Physiology teaching laboratory for undergraduate nursing students and DPT students.

Contributed to the construction of HSCI 200 and registration of students to HSCI 200.
Recruitment of PT faculty volunteers to teach HSCI 200 lab sections

Dates: 2024 - Present

Committee on Committees, member

Dates: 2021-Present

Designing a state of the art Human A&P course, utilizing synthetic cadavers and virtual simulation for registered pre-health students.

Dates: 2022-Present

Opened the Anatomy and Physiology Lab on the main campus. The first classes taught there were the lab sections of A&P2 (HSCI 201) in Spring 2023 and Gross Anatomy (PT601) in Summer 2023.

Division/Department:

Dates: 2021-Present

Member of the Founding Faculty of the Division of Physical Therapy. Dr. Rooney has had full involvement in all CAPTE application activities since the inception of the division of physical therapy.

Dates: 2021-Present

Dr. Rooney took part in many virtual and in-person open house recruitment events and is always available to give prospective students a tour of our building and program facilities.

Dates: 2021-Present

Admissions: Dr Rooney reviewed 17 applicant interview videos in the Fall of 2024, for example.

Dates: 2022 to 2024

Member of the Academic Status Committee, in the Division of Physical Therapy.

Dates: 2022 to 2023

Member of the Policies and Procedures Committee, in the Division of Physical Therapy.

Dates: 2024

Member of Ad-hoc Remediation Plan Committee.

Dates: 2025

Member of Outcomes Assessment & Continuous Quality Improvement Committee.

Dates: 2025 to Present

Member of the Curriculum Committee

Honors and Awards:

No recent Honors or Awards

Awards for graduate studies:

Oslerian Essay Award for Translational Research, National Student Research Forum, Galveston, Texas, 2007.

Travel Grant Recipient: Annual National Neurotrauma Society Symposium, Kansas City, 2007.

Top 16 Abstract Award: Annual National Neurotrauma Society Symposium, Kansas City, 2007.

Mason Guest Memorial Award for the Best Poster Presentation in Physiology. National Student Research Forum, Galveston, Texas, 2008.

Sigma Xi Award for a Poster Presentation. National Student Research Forum, Galveston, Texas, 2008.

UTMB James E. Beall II Award for the Best Neuroscience Poster Presentation. National Student Research Forum, Galveston, Texas, 2008.

Best Student Research Poster, Neuroscience and Cell Biology Department Annual Retreat, UTMB, Galveston, Texas, July 2008.

Travel Grant recipient: Society for Neuroscience Annual Meeting, Washington DC, 2008.

Best Podium Presentation, Neuroscience and Cell Biology Department Annual Retreat, UTMB, Galveston, Texas, July 2009.

Top 16 Abstract Award: Annual National Neurotrauma Society Symposium, Las Vegas, Nevada, 2010.

Continuing Education Attended:

February 2024: "Student Centered Syllabus", hosted by the BU CLT

Current Teaching Responsibilities in the Entry-Level Program for Academic Year of Site Visit:

Year 1, Term 1

DPT 601 Human Anatomy
Course Coordinator & Lab Instructor

Year 1, Term 2

DPT 611 Cardiopulm I: Exercise Physiology
Course Coordinator & Lab Instructor

Year 2, Term 2

DPT 644 Adv. Psychosoc. Aspects of Rehab
Co-Instructor

Year 2, Term 2

Foundations in Neurorehab. 1 – CNS
Course Coordinator & Lab Instructor

Year 2, Term 3

Foundations in Neurorehab. 2 - SC & PNS
Co-Instructor & Lab Instructor