

Luke Zappia
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Education:

Providence College, Providence, RI 02918
B.S. Biology Sept. 2014 – May 2018
Minor in Finance
Liberal Arts Honors Program

SUNY Farmingdale State College
Sept. 2018 – July 2020

New York Institute of Technology
College of Osteopathic Medicine
Old Westbury, NY 11545
Doctor of Osteopathic Medicine (D.O.)
August 2021-June 2025 (Anticipated)

Honors and Awards:

St. Catherine of Siena Scholarship

- Merit scholarship equal to sixty percent tuition, contingent upon membership in the Liberal Arts Honors Program and a 3.25 GPA

RI INBRE/SURF Grant

- Interviewed and selected by Dr. Laura Williams to receive National Institute of Health sponsored biomedical research grant funding research conducted Summer 2016 on isolating and characterizing predatory bacteria from the built environment, a potential future alternative to antibiotics.

ASBMB Travel Award 2018

- Selected as a winner for a travel grant and participation in the annual ASBMB Poster Competition held at the Experimental Biology Conference (San Diego, CA), presenting biomedical research to multiple judges for evaluation.

Sigma XI

- Nominated and inducted into the National Research Honor Society for continued research over multiple semesters

Alpha Epsilon Delta

- Nominated and inducted into the Health Pre-Professional Honor Society

Dean's List

- (Fall 2016), (Spring 2017), (Fall 2017), (Spring 2018)

Cum Laude

- Graduated with Cum Laude status from Providence College for cumulative GPA at or above 3.55

Clinical Shadowing:

Dr. Christopher Brennan, MD Hospitalist - Good Samaritan Hospital Medical Center West Islip, NY

Dr. Ralph Barbato, DO Nephrologist - Good Samaritan Hospital Medical Center West Islip, NY

Dr. Justin Mirza, DO; Orthopedic Surgeon - Mirza Orthopedics, Smithtown, NY

Dr. Ather Mirza, MD; Orthopedic Surgeon – Mirza Orthopedics, Smithtown, NY

Dr. Phillip Guillen, MD; Orthopedic Surgeon – Mirza Orthopedics, Smithtown, NY

Clinical Observership:

Supervisor- Dr. Andrew Glasgow, MD; Anesthesiologist

Department of Anesthesiology, Perioperative and Pain Medicine

Mount Sinai Medical Center New York, NY

Professional Experience:

Clinical Research Coordinator at Mirza Orthopedics, May 2020-July 2021

- Clinical study of innovative surgical techniques and patient outcomes for hand, wrist, and upper extremity orthopedic surgery. Coordinate with surgeons to propose and continue research projects. Write, edit, and submit posters and podium presentations for national and international conferences. Write, edit, and submit abstracts and research manuscripts to journals for publication. Assist in cadaver dissection labs and participate in monthly journal club meetings. Perform patient consent and screening, with collection of patient data (range of motion, pain, grip and pinch strengths).

Research and Development Intern at AM Surgical Inc., May 2020-July 2021

- Collaborate with orthopedic engineers on research projects and surgical instrumentation innovations. Coordinate meetings and presentations for Chief Operations Officer and Chairman of the Board. Arrange and implement digital marketing strategies for the company. Assist upper management in day-to-day tasks and requirements for new and ongoing projects. Perform quality control inspections of medical devices. Conduct endoscopy market research, prepare presentations for venture capital fundraising.

Physical Therapy Aide at Deer Park Physical Therapy and Rehabilitation, Feb. 2019-Feb. 2020

- Under direct supervision of Physical Therapist, performs specific portions of patient treatment program including heat or cold pack therapy and or electrical stimulation. Assists patients recovering from injuries, illnesses, and surgeries manage pain and regain movement through various exercise programs.

Physical Therapy Aide at Northport Wellness Physical Therapy and Rehabilitation, Jan. 2019- Feb. 2020

- Under direct supervision of Physical Therapist, performs specific portions of patient treatment program including heat or cold pack therapy and or electrical stimulation.

Assists patients recovering from injuries, illnesses, and surgeries manage pain and regain movement through various exercise programs.

Undergraduate Research Student with Dr. Laura Williams Aug. 2016-2018

- In continuation with summer research, isolates characterized via 16S sequencing and Genomic DNA sequencing to identify and characterize predatory isolates for future information as a possible biofilm control and or antibiotic alternative

IZE Belize Study Abroad Apr. 2017

- Two-week field lab excursion split between the rain forest site of Blue Creek, Belize and the tropical reef site of South Water Caye, Belize. This immersive experience comprised of observing and analyzing biological diversity, natural remedies, and cultural traditions. Final project included the observation of schooling patterns and hunting techniques of *Albula vulpes* near built systems.

Summer Undergraduate Research Fellow with Dr. Laura Williams Summer 2016

- Isolated eight predatory bacteria samples expressing unique phenotypic expression from the built environment via lysate filtration and double agar overlay technique.

Paper Publication:

Cerra J, Donohue H, Kral A, Oser M, Rostkowski L, **Zappia L**, Williams LE. 2018. Complete genome sequence of *Pseudomonas* sp. strain NC02, isolated from soil. *Genome Announc* 6:e00033-18. <https://doi.org/10.1128/genomeA.00033-18>.

Abstract Publications:

“Phenotypic Variation and Genomics of *Bdellovibrio* Predatory Bacteria from the Built Environment” **Luke Zappia**, Joe Mangiamele, and Laura E. Williams. *The FASEB Journal* 2018 32:1_supplement, 669.20-669.20

“Isolating and Characterizing Predatory Bacteria From The Built Environment” **Luke Conroy Zappia** and Laura E. Williams. *The FASEB Journal* 2017 31:1_supplement, 622.13-622.13

“Endoscopic Trigger Finger Release: Outcomes of a Novel Minimally Invasive Technique for the Treatment of Stenosing Tenosynovitis” Justin Mirza, DO; Ather Mirza, MD; **Luke Zappia, BS**; and Terence Thomas, BS. *Journal of Hand Surgery (European Volume)* 2021, Vol. 46(Supplement 2) S1–S135

“Endoscopic Treatment of Lateral Epicondylitis: A Cadaveric Study” Justin Mirza, DO; Ather Mirza, MD; **Luke Zappia, BS**; and Terence Thomas, BS. *Journal of Hand Surgery (European Volume)* 2021, Vol. 46(Supplement 2) S1–S135

Accepted Abstracts:

“Clinical Outcomes of Lunocapitate Arthrodesis: A Dual-Site Retrospective Study”

Ather Mirza, MD; John Lubahn, MD; Justin Mirza, DO; Zachary Dusckas, MD; **Luke C Zappia, BS**; Terence Thomas, BS. American Society for Surgery of the Hand (ASSH) Annual Meeting (San Francisco, CA) September 30th- October 2nd, 2021

“An Anatomical Basis for Endoscopic Trigger Finger Release and Associated Outcomes” Ather Mirza, MD; Justin Mirza, DO; **Luke C Zappia, BS**; Terence Thomas, BS; Robert Talay, BS. American Society for Surgery of the Hand (ASSH) Annual Meeting (San Francisco, CA) September 30th- October 2nd, 2021

“Complications Following Endoscopic and Open Trigger Finger Release: A Retrospective Comparative Analysis” Ather Mirza, MD; Justin Mirza, DO; Terence Thomas, BS; **Luke C Zappia, BS**; Jacob Abulencia, BS. American Society for Surgery of the Hand (ASSH) Annual Meeting (San Francisco, CA) September 30th- October 2nd, 2021

“The Role of Dynamic Ulnar Variance in the Clinical Outcomes of Triangular Fibrocartilage Complex Debridement” Ather Mirza, MD; Justin Mirza, DO; **Luke C Zappia, BS**; Terence Thomas, BS. American Society for Surgery of the Hand (ASSH) Annual Meeting (San Francisco, CA) September 30th- October 2nd, 2021

“Clinical Outcomes of Lunocapitate Arthrodesis: A Dual-Site Retrospective Study” Ather Mirza, MD; John Lubahn, MD; Justin Mirza, DO; Zachary Dusckas, MD; **Luke C Zappia, BS**; Terence Thomas, BS. Eastern Orthopedic Association (EOA) Annual Meeting (Nashville, TN) October 23rd, 2021

“The Role of Dynamic Ulnar Variance in TFCC Debridement Outcomes” Ather Mirza, MD; Justin Mirza, DO; **Luke C Zappia, BS**; Terence Thomas, BS. Clinical Orthopedic Society (COS) Annual Meeting (Nashville, TN) November 4th, 2021

“Complications Following Endoscopic and Open Trigger Finger Release: A Retrospective Comparative Analysis” Ather Mirza, MD; Justin Mirza, DO; Terence Thomas, BS; **Luke C Zappia, BS**; Jacob Abulencia, BS. International Society for Arthroscopy, Knee Surgery and Orthopedic Sports Medicine (ISAKOS) Global Congress (Virtual Meeting) November 27-28th, 2021

“Clinical Outcomes of Lunocapitate Arthrodesis: A Dual-Site Retrospective Study” Ather Mirza, MD; John Lubahn, MD; Justin Mirza, DO; Zachary Dusckas, MD; **Luke C Zappia, BS**; Terence Thomas, BS. International Society for Arthroscopy, Knee Surgery and Orthopedic Sports Medicine (ISAKOS) Global Congress (Virtual Meeting) November 27-28th, 2021

“Endoscopic Trigger Finger Release: Outcomes of a Novel Minimally Invasive Technique for the Treatment of Stenosing Tenosynovitis” Ather Mirza, MD; Justin Mirza, DO; **Luke C Zappia, BS**; Terence Thomas, BS; Robert Talay, BS. International Society for

Arthroscopy, Knee Surgery and Orthopedic Sports Medicine (ISAKOS) Global Congress (Virtual Meeting) November 27-28th, 2021

Presentations:

“Isolation and Characterization of Predatory Bacteria from the Built and Natural Environment” Angeline Casale, **Luke Zappia**, and Laura Williams, PhD. RI INBRE/SURF Conference Summer 2016 at URI, Narragansett, RI

“Isolation and Characterization of Predatory Bacteria from the Built Environment” **Luke Zappia** and Laura Williams, PhD. Experimental Biology Conference (Chicago, IL) April 2017

“Isolation and Characterization of Predatory Bacteria from the Built Environment” **Luke Zappia** and Laura Williams, PhD. Boston Bacterial Meeting, Harvard University (Cambridge, MA) June 2017

“Phenotypic Variation and Genomics of Bdellovibrio Predatory Bacteria from the Built Environment” **Luke Zappia**, Joe Mangiamele and Laura E. Williams, PhD. Experimental Biology Conference (San Diego, CA) April 2018

“Phenotypic Variation and Genomics of Bdellovibrio Predatory Bacteria from the Built Environment” **Luke Zappia**, Joe Mangiamele and Laura E. Williams, PhD. ASBMB Poster Competition (San Diego, CA) April 2018

“Clinical Outcomes of Lunocapitate Arthrodesis: A Retrospective Study” Ather Mirza, MD; John Lubahn, MD; Justin Mirza, DO; Zachary Dusckas, MD; **Luke C Zappia, BS**; Terence Thomas, BS. American Association for Hand Surgery (AAHS) Virtual Meeting January 2021

“Endoscopic Trigger Finger Release: Outcomes of a Novel Minimally Invasive Technique for the Treatment of Stenosing Tenosynovitis” Justin Mirza, DO; Ather Mirza, MD; **Luke Zappia, BS**; and Terence Thomas, BS. Federation of European Societies for Surgery of the Hand (FESSH) Virtual Congress June 2021

“Endoscopic Treatment of Lateral Epicondylitis: A Cadaveric Study” Justin Mirza, DO; Ather Mirza, MD; **Luke Zappia, BS**; and Terence Thomas, BS. Federation of European Societies for Surgery of the Hand (FESSH) Virtual Congress June 2021

“Clinical Outcomes of Lunocapitate Arthrodesis: A Retrospective Study” Justin Mirza, DO; Ather Mirza, MD; John Lubahn, MD; Zachary Dusckas, MD; **Luke Zappia, BS**; Terence Thomas, BS. Federation of European Societies for Surgery of the Hand (FESSH) Virtual Congress June 2021

“Ulnar Sided Wrist Pain: A Diagnostic Evaluation Guide from 30+ Years of Experience”
Justin Mirza, DO; Ather Mirza, MD; **Luke Zappia, BS**. Federation of European Societies
for Surgery of the Hand (FESSH) Virtual Congress June 2021

Volunteering:

Co-Chair of Smile Train’s Young Leadership Circle (YLC) Board June 2020-Present

- Elected to serve as co-chair for Smile Train’s young professionals board, serving as a direct liaison between Smile Train senior level staff and YLC board members. Create and lead quarterly board meetings as well as heading the communications and programs committee of the YLC.

Young Leadership Circle Programs & Communications Committee Member July. 2020-Present

- Recruitment of general and YLC Board members. Identification and outreach of target groups to incorporate and engage with Smile Train’s mission. Planning and orchestration of recruitment events. Expand Smile Train’s social media exposure. Develop and execute program projects.

Babylon’s Bravest Fundraiser April 2020

- Created and orchestrated a fundraiser during COVID-19 pandemic. Raised over \$4,000 which was used to purchase meals from locally owned restaurants in Babylon Village. I then personally delivered these meals to various units throughout Good Samaritan Hospital Medical Center, one of the major COVID hotspots on Long Island. This fundraiser was a way to dually support the local economy during this difficult time, while also showing gratitude and appreciate for the selfless workers on the frontline.

Young Leadership Circle Board Member at Smile Train Feb. 2019-Present

- YLC board members are a group of Smile Train supporters interested in taking on a leadership role. Roles includes organizing and attending board meetings, fundraising events, educational programs, and conferences.

Young Leadership Circle Advisor for Smile Impact Society Program July 2019-Present

- Working in tandem with the founder, manager of community fundraising, role focuses on constructing outreach plans to international collective of university students. Serve as a resource/liaison to student members, assist in organizing and planning meetings, and identifying appropriate mediums for communication and fundraising.

Young Leadership Circle Corporate Committee Member Oct. 2019-July 2020

- Track board member fundraising goals and YLC event revenue, provide fundraising best practices support to board members, research and identify potential corporate partners to support YLC, work with staff to develop proposals.

Emergency Department Volunteer at Good Samaritan Hospital Sept. 2018-March 2020

- Able to give back to the local community by performing a variety of tasks including but not limited to: handing out admission bags to patients, distributing pillows, blankets, snacks, stocking medical supplies in patient cubicles, fast-track stocking, transport, and running labs between departments.

Community Health Volunteer at Good Samaritan Hospital Sept 2018-March 2020

- In collaboration with hospital staff and outside organizations, help to organize and run events that educate the public on hospital services and programs such as blood drives, vaccinations, and fundraising events.

Veteran's Appreciation Volunteer at Good Samaritan Hospital Nov. 2018-Jan. 2019

- Able to express gratitude to current and former members of the military currently admitted to Good Samaritan Hospital. Position includes distributing thank you gifts and spending time with each patient.

PAL Youth Lacrosse Summer Camp Coach 2014-2015

- Assist in set up, organization, and activities related to youth lacrosse camp. Provide group and one on one instruction to players, including fundamental skills and drills.

Meningitis Vaccine Clinic Volunteer February 8th 2015

- Providence College Office of Safety and Security, in collaboration with RI Department of Health, RI Disaster Medical Assistance Team/Medical Reserve Corps. Aided in set up, handing out information pamphlets, and cleanup of emergency meningitis vaccine clinic after two cases of serogroup B were present on campus.

Babylon Kid Wrestling Summer Camp Volunteer 2014-2015

- Responsibilities included transporting and setting up wrestling mats for camp drills and matches. Provided instruction on technique and skills to kid wrestlers, refereed kid wrestling matches while maintaining a safe and fun environment for campers.

Professional Organizations:

- *NYITCOM Student American Osteopathic Academy of Orthopedics (SAOAO):* First Year Representative
- *American Medical Association:* Member
- *Medical Society of the State of New York:* Member
- *NYITCOM Business & Medicine:* Member
- *NYITCOM Student Osteopathic Surgical Association:* Member
- *NYITCOM Disaster Relief Partnership Group:* Member

Hobbies:

- Saltwater Fishing
- Photography
- Brazilian Jiu-Jitsu