

Horace Rhodes Hambrick
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EDUCATION:

Medical: MD Candidate, Degree anticipated June 2018
NYU School of Medicine, New York, NY
4.0 GPA

Undergraduate: Bachelor of Science in Biochemistry, *Summa Cum Laude*, Degree earned May 2014
Furman University, Greenville, SC
Graduated as Valedictorian with 4.0 GPA

ACADEMIC INTERESTS:

I am a third-year medical student strongly interested in the intersections of social justice and the practice of medicine, particularly in terms of the role physicians and allied health professionals have in attenuating extant health disparities. To that end, and given my proficiency in the Spanish language, I intend to practice medicine in an underserved community either domestically or internationally, though I am as yet undecided with regard to specialty choice. I thus view my education not merely as a means to an end but rather as an opportunity to immerse myself in communities both within and beyond the school of medicine that can broaden my perspective and expand my capacities, both personally and professionally.

PUBLICATIONS AND PRESENTATIONS:

Publications:

Forrest WP, Cao Z, Hambrick HR, Prentice BM, Fanwick PE, Wagenknecht PS, Ren T. Photoactive Chromium(III)–Cyclam Complexes with Axially Bound *geminal*-Diethynylethenes. *Eur J Inorg Chem* 2012 Dec; **2012**(34):5616–20.

Oral Presentations:

Hambrick HR, Wagenknecht PS. Emission Quenching of Cr(III) complexes by Ferrocene: An Investigation into the Chemical Nature and Molecularity of the Interaction. *Furman: Engaged!* April 2014.

Hambrick HR, Wagenknecht PS. Synthesis of bis-Alkynyl Cyclam Complexes of Chromium For Use in Molecular Wires. *Furman: Engaged!* April 2012.

Poster Presentations:

Hambrick HR, Alvarez L, Ocampo A, Martinez L. Modulation of Gene Expression in *P. aeruginosa* to Sub-Inhibitory Concentrations of Imipenem. *MSSNY Annual Symposium*. April 2016.

AWARDS AND RECOGNITION:

- Recipient of the Larry and Klara Silverstein Scholarship to the New York University School of Medicine (valued at \$320,000 over the course of four years of study)
- Recognition as the 2nd most outstanding medical student poster presentation at the 2016 Medical Society of the State of New York annual symposium
- Recipient of the Bradshaw-Feaster Medal for General Excellence, given to the most outstanding male graduate of Furman University in the Class of 2014

- Recipient of the Furman University Scholarship Cup, given to the graduating senior attaining the highest grade-point average
- Recipient of the 2014 John Albert Southern Award in Chemistry at Furman University
- Recipient of the 2014 Robert Emmett Allen Premedical Prize at Furman University
- Recipient of the 2014 John Carmichael Award, an award granted to the most outstanding member of the Furman University Bands who pursued a major other than Music
- Selected as the 2014 ODK Leader of the Year for Furman University
- Recipient of the 2014 President's Award for Leadership at Furman University
- Selection in Spring 2014 for induction into the Quaternion Club at Furman University, a prestigious honors' society for male leaders on campus
- Selection for and Placement into the South Carolina Collegiate Honor Band in January 2014
- Recipient of one of seven national Pi Kappa Phi Scholars Awards for 2013
- Inducted in Spring 2013 into Phi Beta Kappa Honors Society
- Inducted in Fall 2012 into Omicron Delta Kappa National Leadership Honors Society
- Recipient of the 2012 Alfred Reid Memorial Award for Outstanding Leadership at Furman University
- Recipient of the Herman W. Lay Scholarship to Furman University (valued at \$200,000 over the course of four years of study)
- Recognized as a 2010 National AP Scholar as the result of 12 5s on 12 AP exams
- Selected as one of 141 nationwide 2010 Presidential Scholars by the US Department of Education

WORK AND TRAVEL EXPERIENCES:

Research Assistant with the Spatial Epidemiology Lab, Fall 2016-present

- As a research assistant in Dr. Dustin Duncan's Spatial Epidemiology lab, I will collaborate with literature reviews and data analysis for projects concerning the social and neighborhood-level determinants of health in LGBTQ(+), MSM, and minority communities.

Spanish for Health and Medicine in Santander, Spain, Summer 2015

- I was among 6 students from the NYU School of Medicine selected to participate in a 6-week program incorporating 30 hours/wk. of research with 20 hours/wk. of intensive Medical Spanish courses the summer after my first year of medical school.
- My research consisted in an investigation of the response of drug-resistant strains of *Pseudomonas aeruginosa* to differing concentrations of carbapenem antibiotics with respect to biofilm formation and gene expression, using RTi-PCR, among other molecular microbiological techniques.

Intern at Triune Mercy Center, Summer 2014

- Triune Mercy Center is a church located in downtown Greenville, SC dedicated to working with members of the Greenville community who are homeless, unemployed, or otherwise marginalized through social work, behavioral health counseling, and attachment to faith-based social support.
- As an intern, my primary roles consisted in working with individual parishioners to craft effective resumes and gain the computer literacy needed to apply for jobs in the information age, aiding in client intake on food distribution days, and working the front office as various social service agencies and individuals call to inquire about our services or seek assistance for themselves.
- Given my conversational fluency in Spanish, I served as an interpreter on a number of occasions throughout the summer when the need arose, including several mornings and afternoons of volunteer work at San Sebastián, a Catholic parish partnered with Triune that provides community health outreach to Greenville's Hispanic population.

Medical Ethics Program, Fall Term 2013, 15 hours per week

- One of 20 students selected to undertake an intensive study of medical sociology and medical ethics in the context of over 60 hours of shadowing throughout the Greenville Health System
- This program allowed me to consider intentionally both the ethics of medicine as a profession and the degree to which broad social forces play into its internal dynamics, inasmuch as my capacity

for being a compassionate healthcare provider will depend on my ability to comprehend and navigate these social and ethical complexities

Furman University HHMI Undergraduate Research Fellow, Summer 2011-Spring 2012, Summer 2013, 40 hours per week during the summer, 10 hours per week during the school year

- I work in a synthetic inorganic chemistry lab on a project with the goal of synthesizing compounds that could be used as potential substituents in molecular wires.
- I have gained the ability to work semi-independently on a research project, keeping a careful lab notebook, performing various types of spectroscopy and photophysical characterizations on my own (NMR, IR, UV-Vis, Emission, Lifetime)
- Throughout the course of this research experience, I have refined my skills in a variety of lab techniques, including column chromatography, vacuum filtration, extractions, reflux, and working under inert conditions
- I have also gained experience making graphs, figures, and structures of professional quality on the IGOR Pro Graphing program and Bio Draw Ultra v 12.0.
- In this role, I was published in November 2012 in the European Journal of Inorganic Chemistry

Travel Seminar in Southern Africa, Spring Term 2013

- This experience was an intensive tour of South Africa, Namibia, and Botswana, with a particular focus on poverty, culture, and the structures of society, especially as they pertained to child development and observed inequalities in health outcomes. Other coursework included practical training in photography and discussions of the ethics of public photography and photojournalism, along with the role of theatre as an agent of social struggle.
- Travel experiences included visits to state hospitals, antiretroviral and TB-medication distribution clinics, orphanages, child development centers, and photo and theatre exhibits, homestays in both rural and urban settings, and pointed dialogue with grassroots activists.

Tier II MedEx Academy Intern at Greenville Hospital System, Summer 2012, 40 hours per week

- As a Tier II intern, I worked on data input and analysis and program implementation in Head Start centers for a research project on the effectiveness of a childhood obesity prevention program known as Choosy Rx
- This MedEx Academy experience also included over 60 hours of clinical shadowing experience, from Orthopedic surgery to Pediatric Oncology to Radiology
- In addition, the program included classroom modules designed to help the interns design an appropriate research question and implement a study in public health settings, from education of the ethical considerations surrounding human subject research to the process of securing grant funding to various statistical methods of data analysis

COMMUNITY SERVICE AND CAMPUS INVOLVEMENT

Medical School

LGBT People in Medicine, Fall 2014-Present

- As President of this organization from December 2014-December 2015, I worked to fulfill the organization's dual aims of educating our classmates about issues that pertain to the health of LGBTQ+ individuals and creating a safe space for individuals who identify as members of the LGBTQ+ community to author their narratives and live into their unique identities.
- In so doing, I have coordinated discussions on "coming out" as a medical student, served as a liaison for prospective and accepted students who identify as LGBTQ+, hosted lectures on Transgender health and cultural competence, and helped coordinate social events for LGBTQ+ medical students both at NYU and at other medical schools in NYC.
- In addition, I co-coordinated the first-ever collaborative conference among NYU graduate schools on issues pertaining to LGBTQ health and equality, hosted in November 2015.

- I have also been an active participant in the NYULMC LGBTQ Advisory Council, in particular by designing a survey and helping design a Press Kit that documents the mission, vision, and achievements of the Council.

NYU School of Medicine (NYUSoM) Community Service Program, Fall 2014-Present

- As coordinator for the Class of 2018, I help curate the Community Service Program, including coordinating seasonal “Days of Service” for the Medical School, sending out monthly updates about available volunteer opportunities, vetting and approving community service submissions made by other members of the Class of 2018, and helping connect interested students with available volunteer opportunities within the city.

NYC Free Clinic, Fall 2014-Present

- As a patient coordinator and member of the student steering committee from November 2014 – November 2015, I was responsible for checking the Free Clinic’s voicemail account 3 times per week and either addressing patients’ concerns directly or passing them along to other members of our student steering committee as appropriate, in addition to making appointment reminder calls to the 35-40 patients seen each Saturday at the clinic.
- As a clinical student volunteer at the clinic from June 2016 onward, I am responsible for seeing and evaluating patients independently, then presenting my findings, assessment, and plan to an attending physician, thus assuming responsibility for the majority of patient assessment, evaluation, and education.
- As a labs volunteer from January–May 2015, I was responsible every third Saturday for reviewing patients’ lab results, presenting them to a preceptor, and contacting patients either by phone or mail in both English and Spanish while distributing lab supplies as needed to clinical teams, then organizing and processing patients’ samples for analysis at NYULMC’s Central Laboratories.
- As a volunteer interpreter since April 2015, I have facilitated clinical encounters between English-speaking student volunteers and Spanish-speaking patients on select Saturdays.
- As a weekday referrals volunteer from August–November 2014, I helped check the electronic submissions made by weekend referrals volunteers for accuracy to ensure that the clinic’s patients would be able to be scheduled for their referral appointments without delay.

Student Ambassador, NYUSoM Office of Admissions, Fall 2014-Present

- As an Admissions Ambassador, I managed the “Ask an Ambassador” email account, an address to which prospective and accepted students may send questions and receive a response from a current student Ambassador.
- Moreover, I have given several tours to and sat in on panels for prospective and accepted students on interview and “Revisit” days.
- In addition, I helped create, curate, and respond to inquiries posted in the Facebook group created for students accepted into the NYUSoM Class of 2019, in addition to helping solicit and submit updates to the Ambassadors’ NYU website.

Pillar Tracer for the NYUSoM C21 Curriculum, Fall 2014-Present

- As one of 5 students selected to be “Tracers” for the “Pillars” component of the NYUSoM C21 curriculum, I have met and corresponded regularly with faculty and administrators to provide feedback as to the student perception of and suggestions for various Pillar-related activities incorporated throughout our pre-clinical curriculum.

American Medical Women’s Association, Fall 2014-Present

- As a member of the leadership board for the 2015 school year, I have helped coordinate lectures on the impact of gender in health and medicine, the professional barriers faced by female students and doctors, and the role of effective mentorship in achieving gender parity in the healthcare world.

Volunteer for Brothers and Sisters in Science, Fall 2014-Fall 2015

- I have served as a tutor and mentor for a 6th-grade student at the Salk School of Science by meeting for 1-1.5 hours every other week to work on math and language skills in addition to discussing life as a middle school student and any personal or social challenges he faces.
- In addition, I have taught courses on cardiovascular disease, sexual health, mental health, and HIV/AIDS to groups of 6th, 7th, and 8th-graders at Salk.

Volunteer with the Lower East Side Girls' Club, January 2015-Present

- As a volunteer with the Girls' Club's "BioBase" program, I help elementary- and middle-school children learn basic scientific principles in an engaging and supportive environment through experiments and demonstrations ranging from microscopic examination of plants' adaptations to climate to collaborative explorations into the photophysical properties of chlorophyll.

Volunteer for the Sidekicks Program, Fall 2014-Fall 2015

- I have served as a "sidekick" for a child with a chronic illness by accompanying him to appointments, sending him notes of encouragement, and engaging him on a one-on-one basis so that he is not demoralized by the number of times in which he must miss school and access the healthcare system in the process of ongoing management of his condition.

Student Partnership for Urban Health, Fall 2014-Present

- As a membership of the leadership board for the 2015 school year, I have helped coordinate lectures and host documentary screenings that speak to the unique challenges posed by practicing healthcare in crowded, heterogenous urban settings.
- In addition, I have participated in educating clients at the the 30th Street Men's Shelter and inpatients at Bellevue's detox ward about the utility of Naloxone in reversing drug overdoses, then providing them with their own Naloxone kits for future use when they witness victims of drug overdoses.

Volunteer with the NYU Perlmutter Cancer Center, April 2015-June 2015

- I have aided in data collection on select Sundays for a study conducted by the Center designed to understand the state of health disparities in NYC's Latino communities by coaching Spanish-speaking members of a variety of churches throughout the 5 boroughs through a 300-question survey that assesses participants' understanding of and beliefs about cancer alongside the barriers they face to accessing healthcare and living a lifestyle that minimizes cancer risk.

Undergraduate Career

Medical Division Head and Director of Media and Communications for Heller Service Corps, Fall 2011-Spring 2014

- As Medical Division Head, I, alongside my committee, coordinated volunteering at all the medical agencies with which Heller partners, including the Greenville and Taylors Free Medical Clinics, Greenville Memorial Hospital, North Greenville Hospital, Greenville Childrens' Hospital, and the American Red Cross.
- As Media Director, one of my jobs is to write a weekly report of the current activities of the Heller Service Corps, the largest service and volunteering organization on campus, and post said report to the University's Student News forum each Monday afternoon.
- I was also responsible for the design, creation, and distribution of any and all promotional flyers for Heller events, predominantly using Microsoft Word for their creation.
- As a member of the Leadership of Heller Service Corps in general, I helped facilitate, coordinate, and execute all of our on-campus events, from Fall Fest, a Halloween Carnival for nearly 800 local elementary school students, to the "Exceptional Adults" Valentines Dance, in which local adults with disabilities are brought in for a carefree night of dancing with Furman students.
- I maintained a Facebook page for the organization, sending out periodic updates to the student body and alumni about Heller events.

Trombone player in the Paladin Regiment Marching Band, Symphonic Band, and Wind Ensemble, Fall 2010-Spring 2014

- I was chosen to be a section leader beginning in the Fall of 2011, and thus had the responsibility of making sure the trombone section was always prepared for and in attendance at all rehearsals, fully equipped with all music, drill charts, and the like; it was also my job to continually critique the members of my section to improve their playing technique. I have retained the position of section leader every year since then.
- As Historian of Furman Bands for the 2011-2012 school year, it was my job to chronicle all band events with extensive photography, ultimately compiling said photos into slideshow presentations and a commemorative scrapbook for the season.
- In addition, I served as the Student Government representative for the band program in from 2012-2014.

Global Issues Forum, Fall 2012-Spring 2014

- As co-President of GIF throughout senior year, I planned, organized, and secured funding for six CLPs related to global public health, from discussions of the implications of and solutions to water sanitation issues to the importance of mental health in societies around the world to the implications of the HIV/AIDS crisis both locally and internationally. This was all done despite GIF having a budget from SGA of \$0 for the 2013-2014 school year.
- In particular, I hosted a screening of the award-winning documentary *deepsouth*, a film that traces the social causes and consequences of HIV/AIDS throughout the “deep south” regions of the United States
- In addition, I made contact with and hosted Dr. Curt Hamakawa, former member of the US Olympic Committee, who gave an address on the salutary impact that sports can have on health
- As a member of the student executive board of GIF during my junior year, I helped coordinate efforts to bring in speakers related to women’s and gender issues, including Patti Solis Doyle, former campaign manager to Hillary Clinton

Pi Kappa Phi Fraternity, Fall 2011-Spring 2014

- As our chapter’s Philanthropy chair, I coordinated raising over \$6000 for The Ability Experience, an organization dedicated to service with and the empowerment of people with disabilities, by coordinating such varied events as an “empathy dinner” and “wheelchair basketball” to raise awareness of barriers to typical functioning faced by people with disabilities.
- I coordinated weekly volunteer relations between our chapter and Camp Spearhead, a local organization that has weekend and summer programs for people with disabilities.

Volunteer ESOL Tutor, Fall 2012

- While tutoring at the Lutheran Church of our Savior’s after-school program, I utilized my proficiency in Spanish to aid in the adjustment of children who had only recently moved to the US from Latin America and were struggling with both linguistic and cultural acclimation
- Another student from Furman and I founded a “boys club” designed to promote positive self-image formation and healthy decision-making that met once a week after tutoring sessions.

Shucker Leadership Institute, Fall 2010-Spring 2014

- I was one of 25 freshmen selected to be in this leadership-building program based on an application and an interview before classes began in Fall 2010.
- As a fellow, I co-taught a 6-week “Junior Achievement” course that emphasized the importance of families, jobs, and civic duty to a group of 25 first-graders.
- As a part of my experience in Shucker, I attended a training in late 2010 that taught me effective ways to conduct team-building activities for student groups and organizations.

American Chemical Society, Fall 2010-Spring 2014

- As publicity chair for ACS during my junior year, I sent emails and made flyers as reminders for each of our meetings, events, and outreach opportunities, in addition to organizing speakers and contacting other organizations with which we could co-sponsor science-related events.

- As Vice-President during my senior year, I coordinated with teachers and other members of the Greenville community to create outreach and service opportunities for ACS members.
- As a member, I participated in outreach events in local elementary, middle, and high schools designed to get students involved with and excited about chemistry and its applications.
- I have also served as a faculty-vetted tutor for students in introductory chemistry courses through the “CATALYST” tutoring program for at least 2 hours a week beginning Fall 2012.

Furman Peer Advisors, Spring 2012-Spring 2014

- I served as the inaugural Vice-President of this organization composed of faculty-vetted students who could act as a supplemental resource to the system of faculty advising already available.
- In this role, I programmed and led workshops in which the Peer Advisors helped first-year students with designing an ideal schedule and manipulating the university’s course selection system to maximize their chances of placing into the classes they needed for a successful college experience.

Mere Christianity Forum, Fall 2011-Spring 2014

- I served as a member of the Student Board for MCF, a group that planned weekly speakers at forums designed to promote open dialogue on a variety of faith-based issues, from the interaction of science in religion to the ethics of liberation theology, in addition to planning fellowship-based and other more social events for the organization.
- I served as chef for a few vegetarian “4 dollar dinners” at MCF’s off-campus “Vista House,” a residence dedicated to living out intentional Christian community and radical hospitality.

Building Tomorrow for Uganda, Spring 2012-Fall 2012

- This organization is designed to raise money for the construction of primary schools in Uganda. As a member of Furman’s inaugural chapter of the organization, I aided in efforts to bring in just over \$10,000, in particular through a “Bike to Uganda” event wherein students pledged to raise a certain amount of money for each half hour they spent on stationary bikes in front of the campus library.

International Connections Program, Fall 2013-Spring 2014

- I am among the inaugural members of a new initiative designed to pair the burgeoning number of Furman’s first-year international students with on-campus mentors in August who can help in easing the stresses associated with transitioning to college in the US .
- In this role, I have made and kept consistent contact with my mentee – a student from Mexico – as a means by which to aid in his comfortable integration into campus life

Alpha Epsilon Delta, Fall 2010-Spring 2014

- I attend monthly meetings to keep myself updated as to the goings-on of this pre-health honors society, into which I was formally initiated in Spring 2012.

Volunteer Youth Leader, Fall 2010-Summer 2011

Augusta Road Baptist Church, Greenville, SC

- As a volunteer youth leader at Augusta Road, I helped plan, organize, and lead bible studies, activities, devotions, and fellowship activities for two hours each Wednesday and Sunday night.

Volunteer Medical Clinic Assistant, Fall 2010-Spring 2011

Greenville Free Medical Clinic, Greenville, SC

- My job was to ensure patients’ eligibility to be seen at the clinic by transcribing the demographic, financial, and medical information of each patient onto a chart, thereby expediting the work done by the physicians and dentists.
- I used my Spanish skills as an interpreter for patients who would otherwise have been unable to communicate their needs.

Volunteer HHMI Math and Science Tutor, Fall 2010-Spring 2011

Legacy Charter Middle School, Greenville, SC

- I worked one-on-one with an 8th grade student to help get him up to grade level in the areas of math and science. I mainly aided him in the understanding of his assigned work but I often brought in supplemental exercises and printouts as I saw fit.