

Jacob Henry Harman

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6990 Five Notch Road
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Education

Bachelor of Science in Biology, Bachelor of Science in Biochemistry

Lagrange College, Lagrange, Georgia (May 2020)

GPA: 3.7/4.0

Master in Biomolecular Science

Augusta University, Augusta, Georgia (May 2022)

GPA: 3.9/4.0

Academic Achievements

Tri-Beta Membership

Description: This is an Honor society membership that is given to students who have shown exceptional abilities in biology. This society is also dedicated to increasing interest in biology and advancing undergraduate research.

Omicron Delta Kappa Membership

Description: This society is an honor society in which membership is given to students who maintain high scholastic records while exhibiting leadership in the areas of scholarship, service, integrity, character, or fellowship.

Tutor of the Year Award (2019)

Description: This award was given to the tutor who had the largest amount of feedback and the highest amount of positive feedback.

The Hurd Excellence in Biology Award (May 2020)

Description: Award given to the top graduating student in the Biology department.

Shelby-Hicks Scholarship (April 4th, 2019)

Description: Scholarship given to students in the biology department who have shown outstanding academic ability and have been nominated by professors on the committee.

Phi Kappa Phi Membership (May 2022)

Description: an invitation-only Honor society and is restricted to students with integrity and high ethical standards and who are ranked scholastically at the top of their class, regardless of the field of study.

Volunteer and Work Experiences

Medical Internship/Shadowing through Lagrange College

January 2019 / 82.5 hours

Description: I was required to spend a minimum of 80 hours shadowing a medical professional at their place of employment. I was assigned to Dr. William Coursen, DO, and shadowed him and his support staff throughout their day. I was also required to keep a daily journal of what I had experienced throughout the day and complete a research/ personal plan project about the admission process to medical school. In this experience, I was also allowed to shadow a Nurse Practitioner and compare her methods to Dr. Coursen.

Undergraduate Research Experience at LaGrange College

February 2019-May2019/ 20 hours

Description: This experience was an opportunity through Lagrange college to create and execute a research project of the students choosing. I was required to perform preliminary research and submit a research grant form with my research advisor, Dr. Molli Newman, to the undergraduate research council for funding. Due to the nature of my project, I was also required to find appropriate sampling sites and gather samples for analysis. After I completed the laboratory executions, I was required to present my research to my fellow research student and write a formal paper to submit to the undergraduate research council for consideration for publication.

National Convention for Undergraduate Research 2019 Poster Presentation

Description: This experience required that I present the research that I have conducted during the 2018-2019 school year at Kennesaw State University. This experience also required that I stand with my prepared poster for a one-hour session, present a prepared overview, and answer any questions that were presented.

Dates: May 11-13, 2019

Lagrange College Student Hines Award Poster Presentation

Description: LaGrange College offers an award in the areas of basic and applied research. Part of the qualifications for this award is being nominated and presenting your research poster to the college faculty and students in a three-hour session. In addition, posters were hung in the Lewis Library one week before the presentation for selected faculty members to judge the winners of the student research award.

Dates: April 26, 2019

2019 Leadership Luncheon Poster Presentation

Description: This presentation was an invitation to present my research to the Leadership Council at Lagrange college in a one-hour session. I was required to have a prepared overview of my project and be prepared to answer questions regarding my research.

Presentation Date: May 2019

Chemistry and Physics Tutoring Through Lagrange College

Description: This experience required that I be available to students during a set time Monday-Friday evenings to assist students with chemistry and physics problems. Most of the tutoring sessions took place in the library, but the program also gives Lagrange college students the option to request a tutoring session outside of the set tutoring times and required that I be prepared if this request was made.

Volunteer Violin Teacher

Description: I was required to prepare a lesson for a violin class that consisted of 1st - 4th graders once a week at Roopville Elementary school. This included working with older students on solos and with the younger children on basic violin playing. I also was required to prepare the students for music performance at the end of the year.

Church Musician

Description: This experience was a volunteer position that required me to both perform and practice in the areas of vocal, violin, piano, and bass music on Sundays and Wednesdays with other church musicians. In addition, I also received training in how to run the technical equipment that was used during the performance.

Graduate Teaching Assistant at Augusta University

August 2020 – May 2022

Description: As a part of my master's program, I was required to teach two sections of Chemistry I Lab. Labs that the students were required to complete were provided, but student safety and success were my responsibility. I was responsible for grading and providing feedback to students within these sections. In addition, I was required to be available to students to discuss questions and advise on progress in the lab section.

Master's Thesis Research at Augusta University

August 2020 – May 2022

Description: To complete the requirements of the Master's of Biomolecular Science, I completed work with a research mentor in addition to thesis committee members to produce a thesis for publication. My thesis research focused on using an *In Vivo Drosophila* model to determine the characteristics of force-sensitive domains for use in future research. This project included care for fly stocks, completion of designated crosses, and general lab responsibilities (e.g. keeping enough autoclaved glassware available, management of crosses, stocks, and lab supplies, etc.).

Association of Southeastern Biologists (ASB) 2022 Convention attendance

Little Rock, AR (March 30th-April 2nd)

Description: Attended conference to present thesis research focused on using an *In Vivo Drosophila* model to determine the characteristics of force-sensitive domains for use in future research to a wider audience before publication.

Course list:

West Georgia Technical School
Fall/August 2015 – Summer/July 2016

Course Code	Title	Grade
MATH 1111	College Algebra	B
CJUS1010	Intro to Law Enforcement	B
HIST 2111	History of the United States	A
PSYC 1101	Introduction to Psychology	A
ENG 1101	Composition and Rhetoric	B
POLS 1101	U.S. Government	B
HIST 1111	World Civilization	C
SPCH 1101	Public Speaking	A
HUMN 1101	Humanities: Ancient – Middle Ages	A
MUSC 1101	Music Fundamentals	A
SOCI 1101	Introduction to Sociology	B

LaGrange College
Fall/ August 2016 – Fall/ August 2019

Course Code	Title	Grade
CHEM 1101	General Chemistry I	B-
CORE 1140	Computer Applications	A
RLGN 2210	Early Church History	B+
ENGL 1102	Rhetoric and Composition	A
SPAN 1101	Elementary Spanish I	B-
INTM 4428	Ctrl Crits/ Short Form Sci Fic	P
CHEM 1102	General Chemistry II	A-
CORE 1120	Problem Solving	A-
MATH 2105	Precalculus	A+
MUSI 1106H	Applied Strings	A
SPAN 1102	Elementary Spanish II	A
BIO 1101 +L	General Biology I	A
BIO 1102 +L	General Biology II	A
MATH 2221	Analytical Geom and Calculus I	A-
CHEM 3201	Organic Chemistry I	A-
PHYS 1101	Introductory Physics I	A+
SPAN 2103	Intermediate Spanish	A-
INTM 3416	The Works of C.S. Lewis	A
BIOL 1108 +L	Principles of Biology I	A
CHEM 371	Junior Seminar	P
CHEM 3202	Organic Chemistry II	A
CHEM 3311	Elements of Physical Chemistry	A
PHYS 1102	Introductory Physics II	A

BIOL 2148	Human Anatomy I	A-
CHEM 4421	Biochemistry I	A
BIOL 1107	Principles of Biology II	A
BIOL 3351	Vertebrate Embryology	A-
BIOL 3373	Genetics	A
INTM 4309	Survey of Medicine and Allied Health	P
CHEM 4422	Biochemistry II	A
BIOL 4470	Senior Seminar	A
BIOL 4495	Independent Study	A
CHEM 4471	Senior Seminar	A
BIOL 3372	Molecular Biology	A+
CHEM 2251	Analytical Chemistry	A
BIOL 3360	Histology	A
CHEM 4201	Advanced Organic Chemistry	A
TCHA 4010	Teaching Fellowship	A

Augusta University – The Graduate School
Fall/ August 2020 – Spring/ May 2022

Course Code	Title	Grade
BIOM 8011M	Responsible Conduct of Research	S
CHEM 6170A	Biomolecular Techniques	A
CHEM 6970A	Introduction to Research	A
CHEM 6720A	Pharmacology	B
CHEM 6980B	Research Proposal Development	A
CHEM 6450A	Advanced Org. Chem – Synthesis	A
CHEM 6630A	Medicinal Chemistry	A
CHEM 6610A	Rational Drug Design	A
CHEM 6990B	Masters Research	A
MATH 1401WE4	Elementary Statistics	A
CHEM 6990	Masters Research	A
ECON 1810	Introduction to Economics	A