EDUCATION

University of Colorado Boulder, Boulder, CO
Master of Science: Geological Sciences **Aug 2026**
GPA: 4.00/4.00

Wesleyan University, Middletown, CT
Master of Arts: Earth & Environmental Sciences **May 2021**
Paleoenvironmental Reconstruction of Paulina Lake (Newberry Volcano, OR)
Thesis: https://doi.org/10.14418/wes01.2.295 | Defense: https://www.youtube.com/watch?v=vlfNld5NKIU
GPA: 4.00/4.00

Wesleyan University, Middletown, CT
Bachelor of Arts Double Major: English and Earth & Environmental Sciences **May 2020**
Minor: IDEAS (Integrated Design, Engineering, and Applied Sciences)
GPA: 3.81/4.00; Honors: Dean's List Fall 2017, Spring 2018, Fall 2018, Spring 2019, Spring 2020

The Agnes Irwin School, Rosemont, PA **June 2015**
Diploma; Cumulative GPA: 3.85/4.00; Awards: Dorothy Sisson Smythe Biology Award (2014); University of Pennsylvania Book Award (2014); Highest Honors, (2013, 2014); High Honors (2015); Inducted into Cum Laude Society (2015); National Merit Semifinalist (2015); AP Scholar with Distinction (2015)

Harriton High School, Bryn Mawr, PA **Sept. 2011-June 2012**
GPA: 4.0/4.0 (unweighted)

RELEVANT COURSEWORK

Newtonian Mechanics	Life in the Oceans in the Anthropocene	AP Literature
Electricity and Magnetism	Dynamic Earth	English 201: Ways of Reading
AP AB Calculus	Mass Extinctions in the Oceans	Techniques of Nonfiction
Multivariable Calculus	Mineralogy (with lab)	New World Poetics
Introduction to Programming	Hydrology	Homelands and First Nations
Digital Art	Sedimentology (with lab)	Edgar Allan Poe
Introduction to Design and Engineering	Geomorphology (with lab)	Staging Race in Early Modern England
Introduction to Sensors and Measurements	Environmental Geochemistry	Childhood in American
Modeling the Earth and Environment	Volcanology	Techniques of Poetry
Canadian History 1776-1896	Isotope Geochemistry	Great American Novella
Working with Excel and VBA	Living in a Polluted World	Introduction to GIS (with lab)

AWARDS AND ACHIEVEMENTS

Achievement Rewards for College Scientists (ARCS) Scholarship **Aug. 2025 – May 2026**
(Semester-based; renewable up to three years/6 semesters)

Stephen H. Evans Scholarship in Geological Sciences **Aug. 2025**

Colorado Scientific Society Student Grant **May 2024, May 2025**

University of Colorado Boulder Museum of Natural History Student Research Award **April 2025**

Society for Sedimentary Geology (SEPM) Student Research Grant **March 2025**

Penny E. Patterson Graduate Endowed Research Fellowship **March 2025**

Beverly Sears Graduate Student Research Grant **Feb. 2025**

T. Keith Marks Scholarship **Aug. 2024**

Graduate and Professional Student Government (GPSG) Travel Grant **May 2024**

Marcy H and Bruce D. Benson Graduate Fellowship **Aug. 2023-May 2024**
Awarded fellowship for full academic year ('23-'24) graduate funding.

The Micropaleontological Society (TMS) Image Competition **November 2021**
Photo taken through microscope of ostracod valves arranged on a slide was selected as one of ten winners.

Geraldine J. Murphy Prize **December 2019**
Awarded by the Wesleyan University English Department to a student who has written an outstanding critical essay that focuses on short fiction or novels.

Wesleyan University Summer Research in the Sciences Fellowship **June 2019-Aug. 2019**
Grant awarded by the College of Integrative Sciences to continue independent research project from the academic year, culminating in a poster presentation of research project findings in August 2019.

Robert W. Parsons, Xi 1922 Award **June 2019**
Academic merit scholarship awarded by the Psi Upsilon Foundation to a student for demonstrating the highest moral, intellectual and social excellence in all they do in the chapter, on campus, and in their communities.

James T. Gutmann Field Studies Scholarship **May 2019**
The Gutmann Scholarship is awarded by the Department of Earth and Environmental Sciences to an especially promising member of the rising junior, junior, or senior classes either to defray the costs of a summer course in field geology or to support geologic field research expected to lead to a senior honors thesis as a James T. Gutmann Scholar.

WORK EXPERIENCE

Freelance Tutor, *Virtual* **May 2021-present**

- Edit essays, papers, reports, and blog posts for clarity, grammatical correctness, tone, style consistency, and factual accuracy
- Assist middle and high school students in learning material for Chemistry, Biology, Environmental Studies, Mathematics (Geometry through Pre-Calculus), English/Grammar, and some History topics

Instructor, *CU Science Discovery*, Boulder, CO (20-40 hrs/week) **July 2025, June – July 2026**

- Participated in an 8-hour instructor training day to engage in developing teaching and classroom management strategies
- Taught classes of ~10-20 students; courses included *Muggle Magic* (grades 3-5); *Volcanoes, Caves, and Canyons* (grades K-2); *Girls in STEAM* (grades 6-8), *Your Brain and Art* (grades 7-8), *Project: Curiosity!* (grades 5-6), and *Digital Design and Photography* (grades 7-8)

Teaching Assistant, *CU Boulder Department of Geological Sciences*, Boulder, CO (10-20 hrs/week) **Aug. 2022-May 2023; Aug 2024-May 2026**

- Taught an overview of introductory geology topics (GEOL1030) ranging from rock and mineral identification, to tectonics, paleontology, hydrology, and more while fostering a collaborative learning environment
- Evaluated student performance on weekly lab assignments (including field trips) and original written exams related to introductory geology topics covered in short weekly lectures
- Independently oversaw, evaluated, and tracked ~40 students' progress through the lab course
- As GEOL1030 Lead TA for 2 semesters, assisted in the organization of field trips, course materials, and extra help sessions; wrote a new script for a lab to go with a playlist of spatiotemporal datasets projected onto a sphere via Science On A Sphere, a program developed by NOAA

Graduate Assistant, *RESESS Program***,** Boulder, CO (20 hrs/week) **May 2023-Aug 2023**

- Funded by University of Colorado Boulder's Office of Diversity, Equity, and Community Engagement (ODECE), the College of Arts and Sciences, and the Department of Geological Sciences
- Facilitated weekly Writing Workshops and Communications Seminars for EarthScope RESESS and Geo-Launchpad interns
- Followed the progress of the interns in accomplishing their writing assignments and presentations
- Provided feedback on and help interns revise scientific posters, presentations, and research papers
- Assisted in organizing and planning the annual CU Geological Sciences field trip for EarthScope interns

Teaching Assistant, *Introduction to Geochemistry***,** *CU Boulder Department of Geological Sciences*, Boulder, CO (10 hrs/week) **Jan 2023-May 2023**

- Evaluated student performance on homework assignments and written exams for Introduction to Geochemical Principles
- Hosted weekly recitations and office hours to provide enrolled students with additional support

Private Tutor, *MJ Test Prep*, Bryn Mawr, PA **Sept. 2014-Aug. 2017, July 2021-May 2022**

- Tutored high school students for college admissions exams (SAT, ACT) and elementary and middle school students for middle and high school entrance exams (SSAT, HSPT, ISEE)
- Mentored and motivated numerous students on a weekly basis through their high school and/or middle school academic processes
- Answered various inquiries from parents and students regarding how to best navigate the college application process

Intern, *Wesleyan University Office of Student Academic Resources*, Middletown, CT (4 hrs./wk.) **Aug. 2019-May 2021**

- Assisted in administrative tasks for the Office of Student Academic Resources
- Led training sessions for peer tutors through the Dean's Peer Tutoring Program
- Held office hours during which students can seek academic support and guidance
- Helped facilitate and lead monthly meetings with Academic Peer Advisors

Academic Peer Advisor, *Wesleyan University Office of Academic Advancement*, Middletown, CT (8 hrs./wk.) **Aug. 2017-May 2021**

- Received training in assistive technologies, advising strategies, active listening techniques, and effective communication methods
- Worked one-on-one with university students to improve their study, organizational, time management, and other academic skills
- Provided guidance and encouragement to university students as they navigated their academic and extracurricular responsibilities
- Directed university students, when appropriate, to additional resources on campus to ensure that students received adequate support
- Coordinated with faculty, administrators, accessibility specialists, and university students to ensure that students' needs were being met
- Ran tailored workshops for groups of university students to help familiarize them with academic skills and study techniques

Research Assistant, *Newberry Volcanology Lab*, Middletown, CT (4 hrs./wk.) **Jan. 2019-May 2021**

- Processed and prepared core samples to be picked for microfossils
- Picked and organized microfossils from sediment using a Zeiss -2.75 stereomicroscope
- Imaged microfossils using a digital camera on a light microscope and a Scanning Electron Microscope (SEM)
- Interpreted microfossil abundance and stable isotope analysis data so as to recreate a paleoenvironmental history of Paulina Lake
- Traveled in August 2019 with research team to Newberry Volcano, OR to collect field samples (sediment, water, air) from the Newberry Caldera and its two volcanic lakes (Paulina Lake and East Lake)

Graduate Writing Tutor, *Office of Student Academic Resources***,** Middletown, CT (2 hrs./wk.) **Sept. 2020-May 2021**

- Hosted weekly virtual writing sessions and one virtual workshop for graduate students working on theses, dissertations, and other academic projects
- Edited and provided specific feedback on graduate students' writing pieces to improve organization, grammar, clarity, and overall effectiveness in one-on-one consultations

Course Assistant, *Wesleyan University Department of Earth and Environmental Sciences*, Middletown, CT (5 hrs./wk.) **Feb.-May 2021**

- Performed administrative tasks related to tracking 21 students' course participation for E&ES255: The Changing Ocean
- Held office hours each week to aid students in understanding course material and answer questions pertaining to problem sets and labs
- Assisted Professors Elizabeth Sibert and Catherine Davis in grading weekly assignments

Course Assistant, *Wesleyan University Department of Earth and Environmental Sciences,* Middletown, CT (5 hrs./wk.) **Aug.-Dec. 2020**

- Performed administrative tasks related to tracking 16 students' course participation in E&ES376: Mass Extinctions in the Oceans
- Received training in operating the Arctec Space Spider 3D Scanner and using the associated Artec Studio software
- 3D scanned various objects and fossils; processed the scans via Artec Studio software to transform them into 3D models; posted 3D models on an online platform (Viewshape.com) to be shared
- Assisted Professor Ellen Thomas in setting up class sessions in which students look at fossils from Wesleyan's paleontological collections (in addition to 3D models)
- Held office hours each week to aid students in understanding course material and answer questions

Course Assistant, *Wesleyan University Department of Earth and Environmental Sciences,* Middletown, CT (8 hrs./wk.) **July-Aug. 2020**

- Performed administrative tasks related to tracking 14 students' course participation in First-Year Seminar E&ES111: As the World Turns
- Served as communication liaison between participating students and Professors Ellen Thomas and Johan C. Varekamp
- Hosted weekly office hours to aid students in understanding course material and answer questions

Course Assistant, *Wesleyan University Department of Earth and Environmental Sciences*, Middletown, CT (5 hrs./wk.) **Jan.-May 2020**

- Assisted course professor with administrative tasks for E&ES160: Life in the Oceans in the Anthropocene and Beyond
- Read and evaluate submitted student work using rubric provided by professor
- Held office hours each week to aid students in understanding course material and answer questions

Research Fellow, *Wesleyan University College of Integrative Sciences*, Middletown, CT (35 hrs./wk.) **June-Aug. 2019**

- Received grant for summer research to continue independent research project from the academic year
- Presented research project findings via a scientific poster and presentation at a poster session

Teaching Fellow, *Breakthrough of Greater Philadelphia*, Philadelphia, PA (50 hrs./wk.) **June-Aug. 2018**

- Participated in a two-week-long Breakthrough Collaborative pedagogical theory orientation program
- Taught science (Experimental Procedure, Genetics, Sustainable Oceans, Infectious Disease, and Water Scarcity), to rising 7th and 8th grade students to prevent summer learning loss and enrich their future academic experiences
- Mentored–in a small group setting–highly motivated, underserved rising 7th, 8th, and 9th grade students from the Greater Philadelphia area to help prepare them for high school

Writing Mentor, *Wesleyan University Writing Workshop*, Middletown, CT (6 hrs./wk.) **Sept. 2017-May 2018**

- Worked one-on-one with 4-5 university students on a weekly basis to develop their academic writing skills
- Provided guidance and support to help university students achieve success in their writing endeavors
- Edited university students' papers and other pieces of writing to refine grammar, syntax, structure, and cohesiveness

Teaching Fellow, *NSF-Funded Teaching Experience for Undergraduates Program*, Hartford, CT (25 hrs./wk.) **June-July 2017**

- Participated in a two-week-long science pedagogy course taught by a local university professor
- Designed a two-week-long sustainability-based curriculum, complete with lessons and activities, for rising high school sophomores of various demographics from the local Title I magnet school, Hartford Magnet Trinity College Academy (HMTCA)
- Co-taught the curriculum, to two consecutive groups of 15-20 HMTCA students over five weeks, in a classroom setting overseen by professional teachers
- Helped two consecutive groups of 15-20 HMTCA students create a presentation for staff and faculty from their school about what they learned
- Met regularly with professional teachers to discuss progress and to receive feedback and suggestions

Summer Camp Tutor, *MJ Test Prep*, Bryn Mawr, PA (25 hrs./wk.) **June 2015-July 2017 (Summers)**

- Worked closely with small groups of students over the course of a one week "test prep camp" in a classroom/small group setting
- Guided high school students through college admissions exam preparation
- Prepared middle school students for high school entrance exams

Employee, *Children's Book World*, Haverford, PA (10 hrs./wk.) **June 2012-Aug. 2016**

- Organized and categorize book reviews for the summer Read-and-Review program to send to publishers
- Advised fellow staff members when buying books and merchandise to sell
- Inspired customers to read certain books based on their personal interests
- Arranged and restock shelves; inventory merchandise; operate the register

Secretary, *MJ Test Prep*, Bryn Mawr, PA (30 hrs./wk.) **June-Aug. 2015**

- Corresponded with potential clients and discussed tutoring options and programs
- Scheduled tutoring sessions for clients with tutors best suited to their needs
- Organized clients' files and folders and collected payments for tutoring sessions

ADDITIONAL EXPERIENCE

Research Assistant*, CU Boulder Earth Systems Stable Isotope Lab***,** Boulder, CO (10-20 hrs/week) **July 2022-Present**

- Perform regular maintenance on the CU Boulder Earth Systems Stable Isotope Lab (CUBES-SIL) Mass Spectrometer (Delta 253+), including Autoline/slurry trap maintenance, checking liquid nitrogen levels, changing the acid bath, and loading samples into the carousel to be analyzed
- Weigh samples (including those from external collaborators) to highly precise masses (~1 to 15 mg +/- 0.1 mg) on a microbalance for stable carbon, oxygen, and 'clumped' isotope analyses
- Process and catalogue carbonate samples for various projects; separate in situ carbonate nodules from massive carbonate samples for future analyses

Research Assistant, *Varekamp Newberry Volcanology Lab*, Middletown, CT (3 hrs./wk.) **Sept. 2018-Jan. 2019**

- Assist in the production of core samples from a five-meter-long sediment core procured from the volcanic Paulina Lake
- Record notes detailing observations about core samples taken from the sediment core
- Operate grinding machinery and hydraulic press to produce pellets for X-ray diffractometry
- Collaborate with other lab personnel to create a dynamic and supportive lab environment

Co-Captain, *Wesleyan University Club Ice Hockey Team*, Middletown, CT **Sept. 2017-May 2020**

- Attend student club leadership training for budget proposal and team management purposes
- Coordinate with athletic facilities' staff members to determine workable playing times
- Organize weekly ice hockey scrimmages in which club and faculty members can play

3D Scanning Technician, *Environmental Archaeology Lab*, Wesleyan University **Feb. 2021-May 2021**

- Receive training in operating the Arctec Space Spider 3D Scanner and using the associated Artec Studio software
- 3D scanned various objects and fossils; processed the scans via Artec Studio software to transform them into 3D models; posted 3D models on an online platform (Viewshape.com) to be shared
- Trained undergraduate students to use the 3D scanner

Vice President, *Co-educated Xi Chapter of the Psi Upsilon Fraternity at Wesleyan University*, Middletown, CT **Dec. 2017-May 2018**

- Serve as primary advisor to president and second-in-command as he/she executes the following duties: administrates the undergraduate brotherhood, supervises other elected officials, manages finances, interacts with alumni leadership, and communicates with the Psi Upsilon fraternity international organization
- Assist president in completing his/her work and assume the duties of president in his/her absence

- Represent the brotherhood in external affairs alongside the president; craft public statements on behalf of the brotherhood
- Function as liaison between the Xi chapter and the greater Wesleyan community, especially regarding the use of the chapter house for campus events
- Bring reports to and serve on the Xi chapter's elected judicial board; lead and participate in making judiciary decisions
- Facilitate, attend, and oversee all internal fraternal ceremonies, yearly composite picture-taking, and academic forums

Chique Chaque Steward, *Co-educated Xi Chapter of the Psi Upsilon Fraternity at Wesleyan University*, Middletown, CT **May 2018-Dec.2018**

- Provide the brotherhood with communal, home-cooked meals at Chique Chaque (the Xi chapter house's dining service) by determining what the brotherhood desires to eat and ordering and aiding in the production and provision of meals
- Serve as culinary liaison between brothers and those in charge of food preparation
- Maintain the cleanliness of dining areas and facilities so that health inspections are passed
- Collect funds from brothers to meet the operating budget

Junior Chique Chaque Steward, *Co-ed Xi Chapter of the Psi Upsilon Fraternity at Wesleyan University*, Middletown CT **Dec. 2017-May 2018**

- Provide the brotherhood with communal, home-cooked meals at Chique Chaque (the Xi chapter house's dining service) by determining what the brotherhood desires to eat and ordering and aiding in the production and provision of meals
- Serve as culinary liaison between brothers and those in charge of food preparation
- Maintain the cleanliness of dining areas and facilities so that health inspections are passed
- Collect funds from brothers to meet the operating budget

Inter-Greek Council Representative, *Co-educated Xi Chapter of the Psi Upsilon Fraternity at Wesleyan University*, Middletown, CT **May 2017-Dec. 2017**

- Attend several meetings over the course of the semester with members of other on-campus Greek organizations to determine pathways toward improving Greek life relations with the greater campus community by establishing positive relationships with on-campus student governing bodies and groups
- Collaboratively organize inter-Greek community events to facilitate networks and communication amongst on-campus Greek organizations
- Coordinate events to raise funds for students with financial circumstances that would otherwise prevent them from joining Greek organizations

Athletic Czar, *Co-educated Xi Chapter of the Psi Upsilon Fraternity at Wesleyan University*, Middletown, CT **May 2017-Dec. 2017**

- Facilitated brotherhood participation in intramural sporting events on campus
- Sent reminders, correspondences, and encouragement about upcoming athletic competitions
- Served as the official contact and captain for the intramural sports leagues
- Designed and ordered gear for the brotherhood from a custom clothing company; collected payment from and distributed gear to brothers

Volunteer Tutor, *MJ Test Prep*, Bryn Mawr, PA (2 hrs./wk.) **Sept. 2013-Mar. 2016**

- Taught mathematics to groups of high school athletes from an underfunded school district
- Motivated those groups of high school athletes to complete their testing requirements so that they could attend institutions of higher education
- Provided inspiration and guidance for those groups of high school athletes in relation to their general academic success

Assistant Coach, *Lower Merion Girls Ice Hockey Club*, Lower Merion, PA (2 hrs./wk.) **Oct. 2015-Apr. 2016**

- Facilitated communication between players and coaches
- Encouraged each girl to play her best, tailoring each motivation method to the individual player
- Mediated and facilitated conversations, helping to settle locker room disputes between players

SKILLS AND INTERESTS

Technology and Media: Microsoft Word, PowerPoint, Excel, Facebook, Twitter, Instagram, Adobe Photoshop/Illustrator, Procreate, RStudio, MATLAB
Software: ArcGIS Pro, Artec Studio
Laboratory: Field Work, Microfossil Picking (and associated sample preparation), Microscopy, Mass Spectrometry, Microbalance