

Scarlet Science

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Education

Bachelor of Arts, Biological Chemistry | Concentration in Neuroscience expected May 2026

Grinnell College Grinnell, IA

- *Selected coursework:* Principles of Pharmacology; Molecular Biology; Instrumental Analysis; Advanced Behavioral Neuroscience; Statistical Modeling

Research Experience

Research Intern June – August 2025

Department of Neuroscience, University of Iowa Iowa City, IA

- Investigated human brain atrophy during multiple sclerosis
- Performed immunohistochemical procedures for neurons and synapses, obtained images using bright field microscopy, and quantified NeuN and GAD staining on postmortem human tissue
- Regularly communicated results and challenges to PI and research group

Laboratory Student, Instrumental Analysis (course-embedded research) January – May 2025

Chemistry Department, Grinnell College Grinnell, IA

- Collaborated with research group to investigate levels of nicotine in e-cigarettes
- Conducted assays and analyzed data using R
- Presented research methods and findings in departmental poster session

Research Student May – August 2024

Biology Department, Grinnell College Grinnell, IA

- Investigated the mechanism of presynaptic homeostatic potentiation in the mouse neuromuscular junction in collaboration with research team
- Optimized procedure for immunostaining mouse neural tissue with different antibodies

Presentations

Science, S. & Lindgren, C. 2024. Presynaptic homeostatic potentiation in the mouse neuromuscular junction. Poster presentation. Midstates Consortium for Math & Science Undergraduate Research Symposium. St. Louis, MO. November 11.

Mentoring & Leadership Experience

Elected Member, Student Educational Policy Committee May 2025 – present

Biological Chemistry major, Grinnell College Grinnell, IA

- Convey student concerns and priorities to science faculty; gather and synthesize student feedback on prospective faculty hires
- Develop community-building programs for biological chemistry majors

Science Community Leader August 2024 – present

Science Learning Center, Grinnell College Grinnell, IA

- Prepare study guides and conduct review sessions for 20+ students in introductory chemistry
- Tailor presentations and study materials to address students' specific gaps in knowledge

Skills

Laboratory: Immunofluorescence; immunohistochemistry; NMR spectroscopy; gas chromatography; PCR; confocal microscopy; gel electrophoresis; dissection

Technical: R, Minitab, SPSS, Neurolucida, Microsoft 365