

Rosalie Gallagher

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SUMMARY

Current biology student passionate about pest biology and biopesticide development, possessing hands-on laboratory and greenhouse experience. Adept at executing experiments, maintaining insect colonies, and collaborating with scientists to evaluate insecticidal candidates. Attention to detail ensures organized documentation and cleanliness in laboratory environments. Eager to contribute to research operations by implementing effective methodologies while balancing academic pursuits. Proficient in Microsoft Office applications facilitates seamless communication within scientific teams. Committed, reliable, and excited to help advance agricultural pest management through research.

EDUCATION

Bachelor of Science in Biology
University of California, Davis GPA: 3.7
Coursework: Entomology, Biochemistry, Genetics, Ecology

2026
Davis, California

TECHNICAL SKILLS

- **Microsoft Office Suite:** Word, Excel, PowerPoint
- **Laboratory Tools:** Microscope, Centrifuge, Autoclave
- **Statistical Analysis Software:** R, SPSS, SAS
- **Biosafety Equipment:** PPE, Fume Hoods, Safety Glasses
- **Pest Management Tools:** Traps, Pesticide Sprayers, Insect Identification Kits
- **Data Recording Systems:** Lab Notebooks, Electronic Databases, Sample Tracking Software
- **Plant Care Materials:** Plant Nutrients, Soil Amendments, Fertilizers
- **Biopesticide Types:** Microbial, Botanical, Mineraloid
- **Research Methodologies:** Controlled Experiments, Field Trials, Laboratory Analysis
- **Field Data Collection:** Surveys, Monitoring Schemes, Observational Studies

SKILLS

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|----------------------------|--------------------------|-----------------------------|---------------------------|
| • Laboratory Techniques | • Time Management | • Pest Management | • Bioassays |
| • Data Analysis | • Communication | • Team Collaboration | • Statistical Software |
| • Biopesticide Development | • Experimental Design | • Health Monitoring | • Entomological Practices |
| • Microsoft Office | • Research Methodologies | • Performance Documentation | • Quality Control |

EXPERIENCE

Invertebrate Biology Research Intern
University Research Lab

January 2026 - Present
Davis, California

Contributed to experimental design and execution as part of a dynamic research team focused on biopesticide efficacy. Worked closely with scientists to maintain insect colonies, prepared nutrient-rich diets, and ensured optimal health conditions for accurate outcome reflection. Documented systematic processes and results aligned with best practices, amplifying future research capabilities. Participated in data analysis discussions and refined experimental methodologies regularly. Maintained laboratory safety protocols and cleanliness for a productive environment.

- Executed complex experiments testing biopesticides, ensuring methodological rigor.
- Prepared diverse diets for insects, optimizing study conditions and outcomes.
- Conducted consistent bioassay experiments documenting significant insecticidal effects.
- Maintained detailed logs with precise information for research staff and future studies.
- Collaborated actively in team meetings enhancing overall research methodologies.
- Adhered to lab safety standards contributing to functional laboratory efficiency.

Capstone Project Developer
Academic Research Project

September 2025 - December 2025
Davis, California

Led an innovative capstone project investigating biopesticide impacts on local pest populations within agricultural setups. Inspired interdisciplinary inquiry among peers, facilitating project coordination and valuable insights from agricultural stakeholders. Utilized statistical tools for robust data analysis, reinforcing the credibility of findings. Presented results through engaging multimedia platforms that underscored clarity and analytical depth, earning recognition for thoroughness.

- Conducted comprehensive investigations focusing on various biopesticides used in agriculture.
- Developed structured project plans detailing objectives, methodologies, and timelines.
- Utilized statistical analysis software yielding substantial insights into effectiveness.
- Presented findings effectively to both peers and faculty receiving fruitful feedback.
- Sought input from local agricultural groups to enrich project context and relevance.
- Compiled meticulous reports illustrating progress and implications for private review.

Research Assistant
Student Lab

June 2025 - August 2025
Davis, California

Facilitated research projects revolving around plant pathology, showcasing a commitment to effective experimentation and collaboration within a laboratory setting. Contributed to experimental planning and data collection methods, allowing smoother workflow interactions. Supported overall research endeavors through improved tracking systems for collecting essential data tied to ongoing projects.

- Assisted in preparing research samples enhancing readiness for ongoing experiments.
- Recorded critical observations supporting subsequent research goals into pest behaviors.
- Initiated team discussions aimed at improving research techniques based on shared outputs.
- Documented experimental conditions meticulously accessing extensive insights readily.
- Engaged in skill enhancement workshops promoting further knowledge application.
- Maintained collaborative spirit amongst peers fostering positive learning environment.

LEADERSHIP & AWARDS

- Dean's List, University of California, Davis, 2025
- First Place, Campus Science Fair, 2025

CERTIFICATIONS

- Microsoft Office Specialist Certification 📅 2026
- Laboratory Safety Certification 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Biology Club, University of California, Davis
- Volunteer, Local Environmental Initiative, Sacramento, CA

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST