

Daisy Rosas Vargas

1622 Paloma St || Pasadena, CA

daisyrosasv@gmail.com

EXPERIENCE

Paleontological Research Institute-Museum of the Earth

Ithaca, NY

Education Specialist/Scientist/Artist

May 2022-August 2023

- Managed, led, and evaluated weekly museum program: *Drawing with Dr. Daisy* for ages 4-11.
- Facilitated 5 major museum events and 2 exhibit tours with the Museum Education & Prep Lab Manager and Director of Visitor Services
- Created promotional material for social media and generated KPI for future programs.
- Developed guided museum experiences for visitors and families: 8 scavenger hunts for *Insect Exhibit* and *Devonian Rocks! Exhibit*
- Acquired knowledge and experience with live insects, paleontology, biology, and botany.
- Cataloged and organized fossils and specimens into a new system, including digital archive.

Sciencenter

Ithaca, NY

Scientist/ DEI committee member

August 2019-2021

- Created and led hands-on demonstration: The Chemistry of Light for children ages 3 to 7.
- Interacted and guided parents, guardians, caregivers through their museum experience in Spanish and English
- Consulted and worked with museum staff on the Diversity, Equity, Inclusion committee to build DEI museum statement and museum's cores and values.
- Acquired knowledge and experience with shallow seawater creatures, amphibians, and reptiles.

Ithaca College

Ithaca, NY

Assistant Professor

August 2019-July 2023

- Taught entry-level chemistry courses to STEM majors and health-related majors.
- Created and edited learning material for online, hybrid, and in-person learning environments for 4 years.
- Developed and implemented a new course for upper class students.
- Initiated the first inclusive, diversity, equity, and accessibility (IDEA) committee in the department.
 - Created accessible resource flyers for students.
 - Mediated conversations with undergraduates and faculty.
- Created the department newsletter sent to alumni, current students, and STEM community.
- Created content for the department social media; increased engagement by 200% and followers by 30%.
- Developed and disseminated yearlong undergraduate events to promote leadership and communication skills in science by establishing a community.
- Managed, supervised and trained 7 student workers.
- Managed 10 volunteers and coordinated events for Chemistry club and DEI chemistry department meetings.
- Served as non-academic advisor to students, including BIPOC students.

Soapbox Science Chicago 2019

Chicago, Illinois

Speaker

July 2019

- Developed hands-on science puppet demonstration to engage children and parents.
- Worked with multi-disciplined educators and scientists to develop communication skills.

WonderLab Museum of Science, Health & Technology

Bloomington, IN

Early Childhood Education Intern/Science Partner/Curriculum Developer

August 2017- August 2019

- Developed age-appropriate STEAM curriculum for toddlers and young children with Education Director
- Co-developed a yearly, chemistry month curriculum for ages 2 to 6 with Education Director.
- Taught multiple infant and toddler programs for ages 2 to 6.

- Collaborated with Education Director and the Marketing Director to communicate science to Spanish-speaking families through outreach events, bilingual songs, and bilingual pamphlets.
- Presented informal STEM learning strategies at a state conference.

Saturday Science

Bloomington, IN

Science Teacher

January- March 2019

- Developed and taught five lesson plans that incorporate the Earth's biomes and chemistry for 1st and 2nd grade students in public schools.
- Managed class material budget.
- Managed teacher assistants and coordinated responsibilities.

Graduate Women in STEM (GWiSTEM)

Unionville, IN

Program Specialist/Speaker

April 2018

- Developed and led two 30-minute chemistry lessons engaging K-6th grade students.
- Planned and coordinated science outreach to rural schools outside of Bloomington, IN.
- Built and maintained coordinated partnerships with 3 local community-based organizations.
- Planned and coordinated a Women in STEM Day for children and adults with over 15 activities at the Wonderlab Museum.
- Managed volunteers with Women in STEM Day and with Science Night at local elementary school.
- Created public relation materials for events.

Indiana University-Bloomington

Bloomington, IN

Research Assistant

August 2014-2019

- Planned and executed multiple research projects while teaching undergraduates.
- Supervised, trained, and mentored 3 undergraduate and 2 graduate students.
- Coordinated the research group chemical inventory and improved the data entry.
- Planned local symposia for department.
- Presented bimonthly research project updates to research group, department. Presented research at local and state conferences to scientists and non-scientists.
- Presented informal science communication to general public.

EDUCATION HISTORY

Indiana University

Chemistry Ph.D. August 2019

University of California, San Diego

Chemistry B.S. June 2013

PROFESSIONAL EXPERIENCE

Sciencenter- *Board member, Strategic Planning Committee*

August 2021-present

American Chemical Society- *Division of Organic Chemistry Member-at-Large, Diversity and Inclusion*

Committee and co-chair of Membership and Communications Committee

November 2021-present

Alda Center's Women in STEM Leadership Program

February 2021

SciCom Camp 2019

November 2019

500 Women in Science (Bloomington, IN) *Leadership, Action, and Social Media team*

August 2018-July 2019

SCIENCE EDUCATION PROJECTS

National Academy of Sciences, Lab X

January 2022- present

"Chemists in the Kitchen," Daisy Rosas Vargas

Public Works at Ithaca (Public Talk), Ithaca, NY

June 2023

"Behind the Tase: The Chemistry of Whiskey" Daisy Rosas Vargas

Indiana Early Childhood Conference (Seminar Presentation), Indianapolis, IN

"Infants, Toddlers, and Chemistry, Oh My!" Emmy Brockman and Daisy Rosas Vargas

March 2019

Relevant Skills

Project manager

Curriculum developer

Communication Expert

Public Speaking

Program coordination

Artistic and Musical skills

Social Content Creation

For more information about myself and my projects, please visit my website <https://daisyrosasv.wixsite.com/drv1>.