Audrey Whiting, Ph.D.

Department of Natural and Behavioral Sciences | Sul Ross State University International
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EDUCATION

University of Notre Dame — Notre Dame, Indiana
Doctor of Philosophy (Ph.D.), Inorganic Chemistry — May 2026
Dissertation: *Noble and Base Metal Diphosphine-Stabilized Carbenes*
Advisor: Dr. Vlad M. Iluc

Pepperdine University — Malibu, California
Bachelor of Arts (B.A.), Chemistry — May 2020

TEACHING

Sul Ross State University International — Eagle Pass, Texas
Adjunct Instructor of Chemistry — August 2026 – Present

- General Chemistry I — Fall 2026
- General Chemistry I Laboratory — Fall 2026

University of Notre Dame — Notre Dame, Indiana
Graduate Teaching Fellow, Department of Chemistry & Biochemistry — July 2025 – December 2025

- General Chemistry I Laboratory — Fall 2025

University of Notre Dame — Notre Dame, Indiana
Teaching Assistant, Department of Chemistry & Biochemistry — August 2020 – May 2025

- General Chemistry II, Majors and Non-Majors Sections — Spring 2022, 2023, 2025, 2026
- Organic Chemistry I, Majors Section — Spring 2024
- Advanced Inorganic Chemistry Laboratory, Majors Section — Fall 2022, 2023, 2024
- Organic Chemistry I Laboratory — Spring 2021
- General Chemistry I, Non-Majors and Galvin Scholars Sections — Fall 2020, 2021

Pepperdine University — Malibu, California
Teaching Assistant, Natural Sciences Division — August 2018 – May 2020

- General Chemistry I Laboratory — Fall 2018, 2019
- General Chemistry II Laboratory — Spring 2019, 2020

Pepperdine University — Malibu, California
Tutor, Student Success Center — September 2019 – May 2020

TEACHING INTERESTS

General Chemistry I & II; Inorganic Chemistry; Organic Chemistry I & II; Analytical Chemistry; Organometallic Chemistry; X-Ray Crystallography

TECHNICAL SKILLS & AWARDS

Technical Skills:

Nuclear Magnetic Resonance Spectroscopy (Heteronuclear: ^{2}H, ^{13}C, ^{19}F, ^{31}P, ^{195}Pt and 2D: COSY, HSQC, HMBC); Electron Paramagnetic Resonance Spectroscopy; UV-Vis Spectroscopy; IR Spectroscopy; Raman Spectroscopy; X-Ray Crystallography (Data Collection and Structure Solution); Cyclic Voltammetry; Differential Scanning Calorimetry; Mass Spectrometry; Air-free synthesis (Glovebox and Schlenk Techniques); Organic Synthesis; Column Chromatography; Chemical Safety; General Laboratory Maintenance; Inventory Management

Honors & Awards:

University of Notre Dame

Rudy Bottei Graduate Teaching Award, Graduate Teaching Fellowship

Pepperdine University

Christian Leadership Award, Natural Science Division Award, Blanche E. Seaver Faculty Scholarship

PROFESSIONAL EXPERIENCE

University of Notre Dame — Notre Dame, Indiana
Doctoral Researcher, Department of Chemistry & Biochemistry — November 2020 – May 2026

Pepperdine University — Malibu, California
Stauffer Research Fellow, Natural Sciences Division — May 2019 – May 2020

PUBLICATIONS & PRESENTATIONS

Whiting, A. N.; Lincoln, Z. S.; Iluc, V. M. Masked Low-Coordinate Carbene Complexes of Cobalt and Iron. **2026**, *In Preparation.*

Whiting, A. N.; Iluc, V. M. Oxidation Reactions of a Terminal Platinum Alkylidene. **2026**, *In Preparation.*

PINDU: Purdue-Indiana- and Notre Dame Universities Inorganic Chemistry Conference — November 2025
Presentation: *From Iron to Cobalt: Diverging Reactivity of PCP Pincer Complexes*

PINDU: Purdue-Indiana- and Notre Dame Universities Inorganic Chemistry Conference — November 2024
Poster: *Cobalt Carbenes for Olefin Metathesis*

PINDU: Purdue-Indiana- and Notre Dame Universities Inorganic Chemistry Conference — November 2023
Poster: *Synthesis of PCP Cobalt Carbenes*

PINDU: Purdue-Indiana- and Notre Dame Universities Inorganic Chemistry Conference — November 2022
Poster: *Radical Reactivity of Terminal Platinum Carbenes*

PINDU: Purdue-Indiana- and Notre Dame Universities Inorganic Chemistry Conference — November 2021
Poster: *Synthesis and Reactivity of Platinum Radical Carbenes*

259th National Meeting of the American Chemical Society, Philadelphia, PA — March 2020
Poster: *Spectroscopic and thermal analysis with computational modeling of the thermally-activated linkage isomerism of nitrite/nitrito nickel(II) complexes*

LEADERSHIP, SERVICE, & CERTIFICATIONS

American Red Cross First Aid, CPR & AED, Certified Professional Rescuer	August 2023 – Present
Notre Dame Lab Safety, Laboratory Safety Officer	August 2024 – May 2026
Notre Dame IMPACT Lecture Series, Inorganic Division Lecture Coordinator	August 2024 – May 2025
Notre Dame Recreational Sports, Certified Personal Trainer	April 2024 –May 2026
Associated Women in STEM (AWIS), Member	August 2023 – May 2026
Heartland Small Animal Rescue, Foster Parent	2020 – 2021
Pepperdine University Student Programming Board, Event Programmer	2018 – 2020