

Cooper Stergis Jamieson, PhD
Structural Biology & Chemistry
Research Scientist at Gilead Sciences

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Education

2022 – 2023

Post-PhD, Caltech, National Institute of Health Kirschstein Research Service Fellow to Nobel Laureate Frances H. Arnold

- Developed machine learning models to optimize directed evolution workflow.
- Engineered enzymes to catalyze new-to-nature reactions.

2021 – 2022

Post-PhD, University of California, Los Angeles Post-Doctoral Fellow to Professors Kendall N. Houk and Yi Tang

- Published > 20 papers, including first-author papers in *Nature*
- Developed computational methods to rationalize enzyme function

2019 – 2021

PhD, Theoretical & Computational Chemistry, University of California, Los Angeles, CA

- Discovered enzymatic pericyclic reactions in natural product biosynthesis
- Named this family of enzymes the pericyclases
- Characterized the first enzymatic Alder-ene reaction in biology

2017 – 2019

MS, Theoretical & Computational Chemistry, University of California, Los Angeles, CA

2012 – 2016

BA, Chemistry (with honors), Lewis & Clark College, Portland, OR

BA, Art, Lewis & Clark College, Portland, OR

Work Experience

2023 – Current

Research Scientist at Gilead Sciences

- Leverages computational methods to accelerate pharmaceutical development

2018 – 2023

Artificial Intelligence & Computational Chemist at Ro5

- Developed and patented 3 machine learning models for pharmaceutical development

2016 – 2017

Conservation Maintenance Assistant at the Chinati Foundation

- Developed cleaning protocols for museum artworks
- Daily duties included maintaining all artworks on museum grounds and in storage

2016

Artist Assistant to Zoe Leonard

- Prepared all cameras for shoots, labeled and documented all locations & material

Artist Assistant to Jeff Elrod

- Prepared canvases for paint and applied friskets. Assisted in printing artworks

Artist Assistant to Robert Irwin

- Assisted in the fabrication of *untitled (dawn to dusk)* at the Chinati Foundation. See permanent installations in Marfa, TX; publication: *Robert Irwin: untitled (dawn to dusk)*; documentary *Robert Irwin: A Desert of Pure Feeling*.

- Assisted in installing light works Cool School and Apache.
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Selected Awards, Fellowships, Scholarships, Service, Outreach & Professional Associations

2022	Invited Young Scientist at the 71 st Lindau Nobel Laureate Meeting in Chemistry
2021	Guest Lecture at Lewis & Clark College, "The Diels–Alder Reaction In Nature"
2021	Royal Society of Chemistry Horizon Prize
2020–2021	UCLA Graduate Education Dissertation Year Fellowship, Saul and Sylvia Winstein Dissertation Award
2020	American Chemical Society Reviewer Lab Certificate
2020	Don C. Atkins Excellence in Research Award, Michael E. Jung Excellence in Teaching Award
2020	UCLA Chemistry & Biochemistry Excellence in Research Fellowship
2019–2021	Senior Foote Graduate Fellow, Saul Winstein Fellowship
2019	Volunteer at UCLA's Exploring Your Universe Science Festival
2019	Stanford's CQMD/Pulse Quantum Molecular Design Summer School
2018	Sequoia & Kings Canyon National Park Citizen Science Volunteer
2017	Read Marfa Volunteer
2014 – 2015	John S. Rogers Science Research Grant
2014 – 2016	Kent Swanson Memorial Scholarship
2013 – 2016	Mellon Funds Research Grant & Lewis & Clark College Presidential Grant