EDUCATION	
University of California, Irvine, Ph.D., Organic Chemistry	2017-2023
California State University, Los Angeles, B.S. Chemistry, Cum Laude, Departmental Honors	s 2014–2017
RESEARCH EXPERIENCE	
University of California, Santa Barbara (UCSB)	2024-present
Chancellor's Postdoctoral Fellow at California NanoSystems Institute (CNSI)	Ĩ
Research Advisor: Co-advised by Prof. Megan T. Valentine and Prof. Matthew Helgeson	
Current Research Aims: Probing polyelectrolyte complexs and polymer-composite structure	e
via optical microscopy methods. Research entails close collaboration and co-advisement from Prop	f.
Samanvaya Srivastava.	
5	
University of California, Los Angeles	Feb. 2024–Aug 2024
	Feb. 2024–Aug 2024
University of California, Los Angeles	Feb. 2024–Aug 2024
<b>University of California, Los Angeles</b> Research Advisor: Prof. Samanvaya Srivastava	
<b>University of California, Los Angeles</b> Research Advisor: Prof. Samanvaya Srivastava Postdoctoral Scholar at Samueli School of Engineering	
University of California, Los Angeles Research Advisor: Prof. Samanvaya Srivastava Postdoctoral Scholar at Samueli School of Engineering <u>BASF CARA Project:</u> Investigations of high-strength polyurethane-inorganic composites fro recycled and virgin materials.	
University of California, Los Angeles Research Advisor: Prof. Samanvaya Srivastava Postdoctoral Scholar at Samueli School of Engineering <u>BASF CARA Project:</u> Investigations of high-strength polyurethane-inorganic composites fro	om
<ul> <li>University of California, Los Angeles</li> <li>Research Advisor: Prof. Samanvaya Srivastava</li> <li>Postdoctoral Scholar at Samueli School of Engineering</li> <li><u>BASF CARA Project:</u> Investigations of high-strength polyurethane-inorganic composites from recycled and virgin materials.</li> <li>University of California, Irvine (UCI)</li> <li>Research Advisor: Prof. Suzanne A. Blum</li> </ul>	om
<ul> <li>University of California, Los Angeles</li> <li>Research Advisor: Prof. Samanvaya Srivastava</li> <li>Postdoctoral Scholar at Samueli School of Engineering</li> <li><u>BASF CARA Project:</u> Investigations of high-strength polyurethane-inorganic composites from recycled and virgin materials.</li> <li>University of California, Irvine (UCI)</li> <li>Research Advisor: Prof. Suzanne A. Blum</li> <li>Research Assistant at School of Physical Science – Department of Chemistry</li> </ul>	om 2017–2023
<ul> <li>University of California, Los Angeles</li> <li>Research Advisor: Prof. Samanvaya Srivastava</li> <li>Postdoctoral Scholar at Samueli School of Engineering</li> <li><u>BASF CARA Project:</u> Investigations of high-strength polyurethane-inorganic composites from recycled and virgin materials.</li> <li>University of California, Irvine (UCI)</li> <li>Research Advisor: Prof. Suzanne A. Blum</li> </ul>	om 2017–2023

## PUBLICATIONS

**4. Garcia IV, A.** Blum, S. A.; "Polymer Molecular Weight Determination via Fluorescence Lifetime." *J. Am. Chem. Soc.* **2022**, *144*, 22416–22420. Link to article

**3.** Donggeng, Y.; **Garcia IV, A.**; Blum, S. A.; Welsher, K. D. "Growth Kinetics of Single Polymer Particles in Solution via Active-Feedback 3D Tracking." *J. Am. Chem. Soc.* **2022**, *144*, 14698–14705. <u>Link to article</u>

**2.** Garcia IV, A.; Saluga S. J.; Dibble, J. D.; López, P.; Saito, N.; Blum, S. A. "Does Molecular Catalyst Selectivity Change with Time? Polymerization Imaged by Single-Molecule Spectroscopy." *Angew. Chem. Int. Ed.* **2021**, *60*, 1550–1555. <u>Link to article</u>

**1.** Easter, Q. T.; **Garcia IV, A.**; Blum, S. A. "Single-Polymer–Particle Growth Kinetics with Molecular Catalyst Speciation and Single-Turnover Imaging." *ACS Catal.* **2019**, *9*, 3375–3383. <u>Link to article</u>

## AWARDS AND RECOGNITION

2025
2025
2024 –present
2021-2022
2020
2016
2016
2015-2017
2015
2014
2014
2013

## PRESENTATIONS

Garcia IV, A.; "Bridging Nanoscale Chemistry to Bulk Properties for Polymer-Inorganic Composites."	2025
APS Global Physics Summit. Anaheim, California, Contributed Talk.	
Garcia IV, A.; "Development of Fluorescence Microscopy Methods for Investigations of Polymer-	2024
Catalyst Dynamics and Polymer Molecular Weight." Center for Polymers and Organic Solids Seminar	
Series. UC Santa Barbara, Invited Talk.	
Iyer, D.; Garcia IV, A.; Galadari, M.; Wirawan F.; Huacoc, V.; Srivastava, S. "High-Strength	2024
Polyurethane-Inorganic Composites." California Research Alliance (CARA) 10th Anniversary	
Symposium and Spring Program Review, Poster Presentation.	
Garcia IV, A.; Saluga S. J.; Dibble, J. D.; López, P.; Saito, N.; Blum, S. A. "Does Molecular Catalyst	2022
Selectivity Change with Time? Polymerization Imaged by Single-Molecule Spectroscopy." ACS	
Spring Conference. San Diego, California, Contributed Talk	
Garcia IV, A., Easter, Q. T.; Blum, S. A. "Effect of Polymer Composition and Morphology on Catalyzed	2019
Polymerization at the Single-Polymer-Particle Level." Probing Chemical Reactions by Single-	
Molecule Spectroscopy. Kloster Hoechst (Odenwald), Germany, Poster Presentation.	
Garcia IV, A.; Miyake M. G. "Investigation of Methylene Lactide for Organocatalyzed Atom Transfer	2016
Radical Polymerization." Leadership Alliance National Symposium. Stamford, Connecticut,	
Contributed Talk.	
Garcia IV, A.; Vazquez M.; Krishna L. F. "Quantifying Polycyclic Aromatic Hydrocarbons in	2015
Particulate Matter." CSULA 23rd Annual Student Symposium on Research, Scholarship and Creative	
Activity. California State University, Los Angeles, Poster Presentation (Outstanding Poster Award).	

## COMMUNITY OUTREACH AND MENTORSHIP

UCSB, Materials Research Laboratory FLAM Undergraduate Research Mentor	summer 2025
UCLA, Amazon Summer Undergraduate Research Program Mentor	2024
UCI, Blum Laboratory Safety Chair	2019-2021
UCI, Teaching Assistant, Graduate- and Undergraduate-level Courses	2017-2022
CSULA, Student Instructor for Research Techniques Workshop	2017
CSULA, Here We Come (Chemistry Lessons for Local Elementary Students)	2015, 2017
Pasadena City College, ACS Chemistry Club Treasurer	2014
Pasadena City College, MESA Scholar	2013-2014