



Samanvaya Srivastava

University of California, Los Angeles
Department of Chemical and Biomolecular Engineering
420 Westwood Plaza, Boelter Hall 5531-D,
Los Angeles, CA 90095
Phone: 310.825.7563
Email: samsri@ucla.edu
srivastava-lab.net

Current Position

Assistant Professor, Chemical and Biomolecular Engineering, University of California, Los Angeles, Jan. 2018 – present

Background

- Postdoctoral Scholar, The University of Chicago, and Visiting Resident Associate, Argonne National Laboratory, May 2014 – October 2017, *Advisor*: Matthew V. Tirrell
- Ph.D., Chemical Engineering, Cornell University, January 2014, *Advisor*: Lynden A. Archer
- Bachelor of Technology (B. Tech.) and Master of Technology (M. Tech.), Chemical Engineering, Indian Institute of Technology Kanpur (IIT Kanpur), Kanpur, India, May 2009; *Advisor*: Ashutosh Sharma

Honors and Awards

AICHE Journal Futures Scholar	2021
Journal of Polymer Science Emerging Investigator	2021
NSF CAREER Award (to begin in 2021)	2020
AICHE 35 Under 35	2020
Faculty Career Development Award, University of California, Los Angeles	2018
RSC Researcher Mobility Grant, Royal Society of Chemistry	2017
Finalist, Frank J. Padden Award, DPOLY, American Physical Society	2014
Austin Hooey Graduate Research Excellence Recognition Award, Cornell University	2013
Best Poster Award, Fluid Mechanics, AIChE Annual Meeting	2013
emc ² Young Investigator Award, Cornell University, The Energy Materials Center at Cornell (emc ²)	2013
Outstanding Graduate Student Teaching Assistant Award, Cornell University, Chemical Eng.	2011

Activities

Review Activities

NSF, Panel and External Reviewer, 2018 - *present*

Proposal Review Panel, Scattering, Advanced Photon Source, Argonne National Laboratory, 2019-*present*

ACS PRF External Review, 2018 - *present*

The Netherlands Organization for Scientific Research, 2018

American Society for Engineering Education External Reviewer, 2019

Manuscript review for >15 journals including Science Advances, Physical Review Letters, Nature Communications, ACS Macro Letters, Macromolecules and Soft Matter

Conference Program Organization and Session Chair

AIChE Meeting (2017 – *present*), APS March Meeting (2018 – *present*), ACS Colloids and Surface Science Symposium (2019 – *present*), and Society of Rheology Meeting (2019 – *present*)

Membership in Professional Societies

American Institute of Chemical Engineers (AIChE), American Physical Society (APS), and Society of Rheology (SoR)

Select Professional Trainings

“Beyond Rg” Small Angle Scattering Short Course, Argonne National Laboratory, October 2015

Advances in Scattering Techniques: Theory and Applications in Polymer Physics, APS March Meeting, March 2011

Interests

Research in our group focuses on harnessing self-assembly as a tool for materials design. We are specifically interested in the role of electrostatic interactions, and our work spans from molecular design and synthesis to nano-, micro- and macro-scale materials characterization, all the way to biochemical, biomedical and structural composites applications. I have published >30 papers till date, with >15 papers that include scattering-based research.

Goals

As a soft matter scientist, I have been a regular user at APS since 2011. I started working on SAXS and XPCS experiments in graduate school with multiple visits every year. During my postdoc in UChicago and Argonne, I developed even closer ties with APS. Now, I have started my lab at UCLA, and have been regularly visiting and bringing graduate students to the APS. Additionally, I have fostered 4 collaborations with groups, at UCLA and outside, with no previous background in scattering and have introduced scattering as a method to investigate structure in wide variety of soft materials.

With these experiences, I would like to contribute to the APSUO by

- Increase awareness among soft matter scientists and engineers of diverse X-ray scattering techniques.
 - Encourage and widen the participation of next generation of scientists in scattering workshops and short courses.
- Promote communication between the user community and the APS management.