

## Surjendu Bhattacharyya

Project Scientist, SLAC National Accelerator Laboratory

### Bio

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#### BIO

I am currently a Research Associate at SLAC's LCLS SRD Chemical Science Department. My research focuses on time-resolved dynamics in the gas phase, with a particular interest employing novel experimental techniques to investigate the dynamics of molecules, radicals, and ions. These techniques include Coulomb explosion imaging, MeV electron diffraction (MeV-UED), X-ray scattering, X-ray absorption, and photoelectron spectroscopy. This work aims to improve the fundamental understanding of energy, environmental, biological, and atmospheric processes.

I am currently adapting a pyrolysis source to a time-of-flight spectrometer to perform time-resolved studies of radicals using UV, high harmonic generation (HHG), and X-rays. Additionally, I plan to integrate the pyrolysis setup with MeV-UED to investigate structural molecular dynamics through diffraction measurements.

#### LINKS

- Google Scholar: <https://scholar.google.com/citations?user=zONmgalAAAAJ&hl=en>
- linkedin: <https://www.linkedin.com/in/surjendu-bhattacharyya/>