



## Amy Cordones-Hahn

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### Current Position

Associate Staff Scientist, Stanford PULSE Institute, SLAC National Accelerator Laboratory

### Background

- 2015-present: Associate Staff Scientist, SLAC National Accelerator Laboratory
- 2013-2015: Postdoctoral Researcher, Chemical Science Division, Lawrence Berkeley National Laboratory
- 2012: PhD in Chemistry, University of California Berkeley
- 2007: MS and BA in Chemistry, Brandeis University

### Activities

- Conference organization related to time-resolved x-ray methods:
  - Ultrafast X-ray Summer Seminar (chair 2018 and co-chair 2017)
  - Research Opportunities in Photochemistry, Solar Energy & Advanced X-ray Methods (2016, co chair Molecular materials breakout session)
  - Scientific Opportunities for Ultrafast Hard X-rays at High Repetition Rate: An Energy Upgrade of LCLS-II (2016, co-chair Coupled dynamics of energy flow breakout session).
- Frequent user of the APS and of other synchrotron (ALS and SSRL) and FEL (LCLS) sources since 2013.
- Served on an APS beamline review committee, 2018.

### Interests

My research interests are focused on understanding how photoexcitation of electronic excited states drives chemical reactions of functional transition metal complexes, such as molecular photocatalysts. I apply time-resolved x-ray methods to study these problems because they provide unique sensitivity to the local electronic state and chemical structure over the course of a reaction, allowing us to uncover the detailed reaction mechanism. I have worked as a user at both synchrotron (including APS) and FEL sources since 2013 to study the solution phase reactions of transition metal complexes in real-time, using time-resolved x-ray absorption and emission spectroscopies.

### Goals

I would like to help facilitate communication between the APS management and the user community, especially those involved in time-resolved research and reliant on APS operation modes consisting of well-separated bunches (24 bunch mode). My goal is to advocate for the continuation and advancement of time-resolved x-ray methods at APS-U, so it continues to be a leading facility in x-ray studies of chemical and material dynamics.