



## 2024-2025 POCC Lecture Series

### The Early Career Investigator Lecture:

Feb 27, 2025, 7:30 PM

Prof. Daniel Kim

Temple University

*Applications of Acetal Radicals in Organic Synthesis*

IN PERSON @:

Carolyn Hoff Lynch Lecture Hall Chemistry Building,  
University of Pennsylvania

6:30 Reception in the Nobel Hall

Food and drinks to be provided!

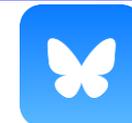
The Philadelphia Organic  
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**Abstract:** The Kim Research Group has been investigating new light-driven reactions to develop rapid synthesis to a variety of important bioisostere building blocks. Currently, we are especially interested in acyl and acetal radicals and their use in organic synthesis and their potential applications to new materials and pharmaceuticals. Specifically, we've developed new reagents for the nucleophilic installation of TFMKs (trifluoromethyl ketones). Recently, we've been investigating new opportunities and avenues for acetals as C2 fragments as complementary synthons for the accessing vicinal functional groups. We will discuss the development of these modular and simple building blocks in complex synthesis.

**Bio:** Daniel grew up local to Philadelphia in Horsham, PA in Montgomery County. He earned a B.S. degree in Chemistry at Gettysburg College working with Professor Timothy Funk on Pd- and Fe-catalyzed oxidation reactions. In graduate school he gained valuable research experience with Professor Vy Dong working on Rh- and Co-catalyzed hydroacylation reactions at the University of California, Irvine. Daniel moved back across the country to join Nobel Laureate & March's POCC speaker, Professor Dave MacMillan at Princeton University as a postdoctoral research fellow working on photoredox-catalyzed bioconjugation reactions. He joined Temple's Research Faculty as an Assistant Professor in 2020 where he has initiated a research program developing new reagents to solve challenges in organic synthesis.