

# Faculty Search Candidate Seminar

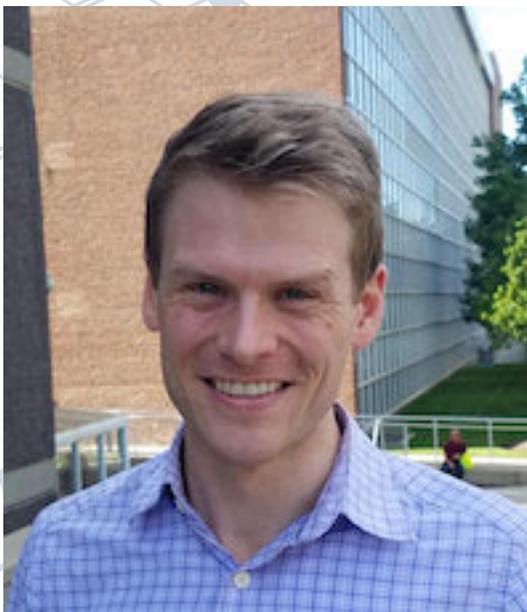
Virtual

<https://udel.zoom.us/j/94085517805> Password: chemistry

Monday, January 24, 2022 10am

## *Azetidone Opening by Enantioselective Anion Delivery: Charge Recognition for Generality in Asymmetric Catalysis*

How can we develop catalytic reactions that yield highly enantioenriched products from substrates bearing diverse substituents at their prochiral centers? Such reactions are highly valued as reliable tools for setting stereocenters in complex molecular settings, but are also exceedingly scarce. In this talk I will disclose a hydrogen-bond-donor catalyzed azetidone-opening reaction that yields highly enantioenriched bifunctional building blocks. This methodology will then serve as platform for discussing new technologies and mechanistic hypotheses regarding how to develop highly general, catalytic, asymmetric methods.



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