Adam X. Wayment

Technical Specialist

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Adam is a Technical Specialist within Marshall Gerstein's Chemical Sciences Group. He assists with drafting provisional, non-provisional, continuation, and divisional patent applications, responding to office actions, and performing patent searches.

Practices

- Patent Prosecution

Industries

- Chemical Sciences

Representative Experience

- Organic synthesis at various scales
- Photocatalysis
- Peptide synthesis
- Organometallic catalysis
- Purification methods

Background and Credentials

Prior to joining Marshall Gerstein, Adam worked as a postdoctoral fellow at Northwestern University in the lab of Prof. Karl Scheidt. In his postdoctoral research, Adam developed novel synthetic pathways involving N-heterocyclic carbene (NHC)/photocatalytic methods to synthesize medicinally important compounds.

Adam achieved his Ph.D. in organic chemistry from Brigham Young University, where he worked as a graduate researcher and gained valuable experience leading projects focused on the development of bifunctional peptide-based catalysts. Adam also served as the department's mass spectrometry lab manager, as well as several teaching and mentoring positions within the chemistry department. Adam holds a B.S. in Chemistry from Duke University, with a minor in Asian and Middle Eastern Studies (Chinese).

Education

- Brigham Young University (Ph.D.)
    - Organic Chemistry
- Duke University (B.S.)
    - Chemistry

Publications and Presentations

- **Wayment, A.X.**; Scheidt, K.A.; Three-Component Synthesis of *γ*-Amino Esters with *α*-Quaternary Carbon Centers via NHC/Photoredox Dual Catalysis. *Adv. Synth. Catal.***2025**, 00, e70013.
- **Wayment, A.X.**; Johnson, N.C.; Rodriguez Moreno, M.; Stewart, C.; Felix, B.M.; Lambert, I.; Traynor, S.A.; Nielson, P.M.; Lofgreen, G.Q.; Smith, S.L.; Newton, M.P.; Tretbar, J.W.; Nygaard, J.M.L.; Harrell, K.G.; Kinghorn, M.J.; Michaelis, D.J.; Squaric Esters as Peptide Stapling Reagents. *Tett. Lett.***2024**, 140, 155010.
- **Wayment, A.X.**; Rodriguez Moreno, M.; Jones, C.J.; Smith, G.J.; Jarman, P.; Garcia Morin, N.J.; Coombs, M.J.; Parkman, J.A.; Barlow, C.D.; Allington Smith, S.; Burt, S.R.; Michaelis, D.J.; Optimizing the local Chemical Environment of a Bifunctional Helical Peptide Scaffold Enables Enhanced Enantioselectivity and Cooperative Catalysis. Org. Lett. **2022**, 24 (16), 2983-2988.