Christopher D. Wight (he/him)

Texas State University
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EDUCATION

University of Texas at Austin
Postdoctoral Research Fellow (with Prof. Eric V. Anslyn) June 2021 – August 2023

Ph.D., Organic Chemistry (with Prof. Brent L. Iverson) August 2015 – May 2021
Thesis: '*Functional Supramolecular Architectures: Mechanistic Analysis of Solid-State Colorimetric Switching and Creation of Novel Energy Conversion Materials*'

B.S., Biochemistry, with Honors August 2011 – May 2015

TEACHING EXPERIENCE

Texas State University – Department of Chemistry
Assistant Professor of Instruction, Organic Chemistry I & II August 2024 – Present
Lecturer, Organic Chemistry I & II August 2023 – July 2024

The University of Texas at Austin
Supplemental Instruction (SI) Supervisor Spring 2019, Fall 2019, Spring 2020, Fall 2020

Head Teaching Assistant, Organic Chemistry I Fall 2017, Fall 2018, Fall 2019, Fall 2020

Head Teaching Assistant, Organic Chemistry II Spring 2016, Spring 2017

Teaching Assistant, Organic Chemistry II Spring 2015

Teaching Assistant, Organic Chemistry Laboratory, two sections Fall 2015

PUBLICATIONS

15. Fargher, H. A.; Lim, J.; Shuluk, J. R.; **Wight, C. D.;** Asche, S.; Devireddy, P.; Zhou, Y.; Vera, M. S.; Dahlhauser, S. D.; Bhadra, S.; Maggiori, C.; Johnson, S. S.; Graham, H. V.; Ellington, A. D.; Anslyn, E. V. A Compositionally Biased Oligourethane Sensor Array To Differentiate Solids by Their Surface Chemistry: An Analogy to the Sense of Touch. *Journal of the American Chemical Society* 2025 *147* (34), 31300-31309. https://doi.org/10.1021/jacs.5c10754

14. Shuluk, J. R.‡; **Wight, C. D.‡;** Howard, J. R.; King, M. E.; Moor, S. R.; DeHoog, R. J.; Dahlhauser, S. D.; Eberlin, L. S.; Anslyn, E. V. A Workflow Enabling the Automated Synthesis, Chain-End Degradation, and Rapid Mass Spectrometry Analysis for Molecular Information Storage in Sequence-Defined Oligourethanes. *JACS Au* 2025 *5* (3), 1232-1242. https://doi.org/10.1021/jacsau.4c01070
‡ These authors contributed equally

13. Liu, H.; Deol, H.; Raeisbahrami, A.; Askari, H.; **Wight, C. D.**; Lynch, V. M.; Anslyn, E. V. A Method for Rigorously Selective Capture and Simultaneous Fluorescent Labeling of N-Terminal Glycine Peptides. *J. Am. Chem. Soc.* 2024, *146* (20), 13727-13732. https://doi.org/10.1021/jacs.4c04141

12. Cadena, D.; Sowa, J.; Cotton, D.; **Wight, C. D.**; Hoffman, C.; Wagner, H. R.; Boette, J.; Raulerson, E.; Iverson, B. L.; Rossky, P.; Roberts, S. T. Aggregation of Charge Acceptors on Nanocrystal Surfaces Alters Rates of Photoinduced Electron Transfer. *Journal of the American Chemical Society* 2022, 144 (49) 22676–22688. https://doi.org/10.1021/jacs.2c09758

11. **Wight, C. D.**; Xiao, Q.; Wagner, H. R.; Hernandez, E. A.; Lynch, V. M.; Iverson, B. L. Influence of Alkyl Side Chain Length on the Assembly and Thermochromic Solid-State Properties in Symmetric and Asymmetric Monoalkoxynaphthalene-Naphthalimide Donor-Acceptor Dyads. *Crystal Growth & Design* 2022, 22, 12, 7363–7373 https://doi.org/10.1021/acs.cgd.2c00977 .

10. Dahlhauser, S. D.; **Wight, C. D.** ǂ; Moor, S. R. ǂ; Scanga, R. A.; Ngo, P.; York, J. T.; Vera, M. S.; Blake, K. J.; Riddington, I. M.; Reuther, J. F.; Anslyn, E. V. Molecular Encryption and Steganography Using Mixtures of Simultaneously Sequenced, Sequence-Defined Oligourethanes. *ACS Central Science* 2022, 8 (8), 1125-1133. https://doi.org/10.1021/acscentsci.2c00460

9. Bachman, J. L.; **Wight, C. D.**; Bardo, A. M.; Johnson, A. M.; Pavlich, C. I.; Boley, A. J.; Wagner, H. R.; Swaminathan, J.; Iverson, B. L.; Marcotte, E. M.; Anslyn, E. V. Evaluating the Effect of Dye–Dye Interactions of Xanthene-Based Fluorophores in the Fluorosequencing of Peptides. *Bioconjugate Chemistry* 2022, 33 (6), 1156-1165. https://doi.org/10.1021/acs.bioconjchem.2c00103

8. Raulerson, E. K.; Cadena, D. M.; Jabed, M. A.; **Wight, C. D.**; Lee, I.; Wagner, H. R.; Brewster, J. T., II; Iverson, B. L.; Kilina, S.; Roberts, S. T. Using Spectator Ligands to Enhance Nanocrystal-to-Molecule Electron Transfer. *The Journal of Physical Chemistry Letters* 2022, *13* (6), 1416-1423. https://doi.org/10.1021/acs.jpclett.1c03825

7. **Wight, C. D.** Functional supramolecular architectures: mechanistic analysis of solid-state colorimetric switching and creation of novel energy conversion materials. 2021. UT Electronic Theses and Dissertations. The University of Texas at Austin. https://repositories.lib.utexas.edu/handle/2152/87018

6. **Wight, C. D.**; Xiao, Q.; Wagner, H. R.; Hernandez, E. A.; Lynch, V. M.; Iverson, B. L., Mechanistic Analysis of Solid-State Colorimetric Switching: Monoalkoxynaphthalene-Naphthalimide Donor–Acceptor Dyads. *Journal of the American Chemical Society* 2020, *142* (41), 17630-17643. https://doi.org/10.1021/jacs.0c08137

5. Zafar, H.; Brewster, J. T.; **Wight, C. D**.; McVeigh, M.; Steinbrück, A.; Lynch, V. M.; Sessler, J. L., Synthesis of α,α'-linked penta- and septaheterocycles by tandem Suzuki coupling. *Journal of Porphyrins and Phthalocyanines* 2019**,** *23* (01n02), 28-33. https://doi.org/10.1142/9789811223556_0070

4. Brewster, J. T.; Zafar, H.; McVeigh, M.; **Wight, C. D**.; Anguera, G.; Steinbrück, A.; Lynch, V. M.; Sessler, J. L., Gram-Scale Synthesis of a Bench-Stable 5,5″-Unsubstituted Terpyrrole. *The Journal of Organic Chemistry* 2018**,** *83* (16), 9568-9570. https://doi.org/10.1021/acs.joc.8b01333

3. Peebles, C.; **Wight, C. D.**; Iverson, B. L., Chapter 3 NDI Foldamers, Assemblies and Conformational Switching. In *Naphthalenediimide and its Congeners: From Molecules to Materials*, The Royal Society of Chemistry: 2017; pp 72-89.

2. Peebles, C.; **Wight, C. D.**; Iverson, B. L., Solution- and solid-state photophysical and stimuli-responsive behavior in conjugated monoalkoxynaphthalene-naphthalimide donor-acceptor dyads. *Journal of Materials Chemistry C* 2015**,** *3* (46), 12156-12163. https://doi.org/10.1039/C5TC02397A

1. **Wight, C.** "Regeneration by Fragmentation along Elevation and East-West Gradient in Tropical Cloud Forest Understory Piper spp." *Univ. of Texas at Austin Undergraduate Research Journal,* 2014, 1, 65-76.