



## Amanda K. Nelson

Chemistry and Chemical Engineering Librarian, Science Library

 Curriculum Vitae available Online

### Bio

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#### BIO

My academic background includes an interdisciplinary focus on law, psychology, and chemistry. I developed new organic synthesis methods during my Ph.D. program at Virginia Tech, which culminated an international collaboration as a Fulbright Scholar. Thereafter, I came to Stanford as Manager of the Undergraduate Laboratory Program, where I packaged our chemistry experiments and shipped them worldwide during the pandemic. Embracing my new career as the Chemistry and Chemical Engineering Librarian, I now turn my attention to curating information and teaching information literacy in science.

#### CURRENT ROLE AT STANFORD

I am a science librarian for Chemistry and Chemical Engineering. I work closely with these departments to provide services and resources for students, researchers, postdocs, staff, and faculty. I manage our chemistry and chemical engineering collections, as well as the science software privileges for Stanford affiliates.

#### HONORS AND AWARDS

- STAR (Safety in Training and Research) Award, Stanford University (2019)
- Fulbright Fellowship, U.S. Department of State (2015-2016)
- Graduate Research Development Program – Funded Research Proposal, Virginia Tech (2015-2016)
- Graduate Research Development Program – Funded Research Proposal, Virginia Tech (2013-2014)
- Magna Cum Laude Distinction, University of North Carolina at Charlotte (2010)
- The Robert Lassiter Outstanding Undergraduate Paper, University of North Carolina at Charlotte (2010)
- Cecil Prince Memorial Scholarship, University of North Carolina at Charlotte (2009-2010)

#### EDUCATION AND CERTIFICATIONS

- PhD, Virginia Tech , Chemistry (2016)
- BA, University of North Carolina at Charlotte , Chemistry (2010)
- BS, University of North Carolina at Charlotte , Psychology (2010)
- BA, University of North Carolina at Charlotte , Criminal Justice (2010)

#### PROJECTS

- Hands-on Laboratory Kits for Remote Learning - Stanford University (6/2020 - 6/2021)

## Teaching

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### COURSES

#### 2020-21

- Understanding the Natural and Unnatural World through Chemistry: CHEM 121 (Aut, Spr)

## Professional

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### PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Chair, ACS Local Section (2024 - present)
- Programming Co-Chair, CINP Division ACS (2023 - present)
- Alternate Councilor, American Chemical Society (2022 - present)
- Chapter Advisor, Alpha Chi Sigma (2019 - present)
- Laboratory Safety Committee, Stanford EH&S (2017 - present)

## Publications

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### PUBLICATIONS

- **Photoactivated cell-killing involving a low molecular weight, donor-acceptor diphenylacetylene** *CHEMICAL SCIENCE*  
Chisholm, D. R., Lamb, R., Pallett, T., Affleck, V., Holden, C., Marrison, J., O'Toole, P., Ashton, P. D., Newling, K., Steffen, A., Nelson, A. K., Mahler, C., Valentine, et al  
2019; 10 (17): 4673-4683
- **Tandem fluorescence and Raman (fluoRaman) characterisation of a novel photosensitiser in colorectal cancer cell line SW480** *ANALYST*  
Gala de Pablo, J., Chisholm, D. R., Steffen, A., Nelson, A. K., Mahler, C., Marder, T. B., Peyman, S. A., Girkin, J. M., Ambler, C. A., Whiting, A., Evans, S. D.  
2018; 143 (24): 6113-6120
- **Chemo-, Regio-, and Stereoselective Copper(II)-Catalyzed Boron Addition to Acetylenic Esters and Amides in Aqueous Media** *JOURNAL OF ORGANIC CHEMISTRY*  
Nelson, A. K., Peck, C. L., Rafferty, S. M., Santos, W. L.  
2016; 81 (10): 4269-4279
- **Regio- and Chemoselective Diboration of Allenes with Unsymmetrical Diboron: Formation of Vinyl and Allyl Boronic Acid Derivatives** *ACS CATALYSIS*  
Guo, X., Nelson, A. K., Slebodnick, C., Santos, W. L.  
2015; 5 (4): 2172-2176