

Eleanor Kemper

linkedin.com/in/ekemper22 | 773-867-5309 | kemper@u.northwestern.edu

EDUCATION

Northwestern University

Chemistry, Ph.D.

Evanston, IL

Anticipated Graduation: September 2022

Chemistry of Life Processes Institute Graduate Training Program

- Selected as a trainee on NIH-funded institutional training grant for 2 years

Certificate in Management for Scientists and Engineers, Kellogg School of Management

- Selected (50/200) for an intensive 10-week program for doctoral students focused on management and frameworks

University of Illinois at Urbana-Champaign

Chemistry, B.S. with Honors

Urbana, IL

May 2017

- Honors College, Dean's List, National Merit and Alumni Distinguished Scholarships
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RESEARCH

Northwestern University, Evanston, IL

Doctoral Researcher, Prof. James Jones

2017-Present

- Develop new strategies for non-invasive, quantitative analysis of multiple tumor markers using magnetic resonance spectroscopy (MRS) and bio-responsive chemistries pioneered in the Jones group
 - Wrote proposal for and was awarded \$6000 research grant by the Alumnae of Northwestern for primary project
 - Manage laboratory purchasing, receiving, and inventory
 - Synthesized and evaluated a new generation of probes for non-invasive evaluation of hormone receptor status in female reproductive cancers
 - Directed two multi-laboratory imaging studies to evaluate receptor detection in rodent models of breast cancer
 - Mentored an undergraduate student in planning and executing a research project based on original work
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LEADERSHIP & TEACHING

Northwestern University, Evanston, IL

Coordinator, Mentorship Opportunities for Research Engagement

2019-Present

- Partner and coordinate with local high school and community college teachers to connect students interested in science with an interdisciplinary group of Northwestern graduate students for career panels and mentorship
- Guide the production of follow-up digital content for awareness and information on opportunities in science

Teaching Assistant, Chemistry Department

2019-Present

- Lead laboratory sections and recitations of 8-20 students for regular and advanced undergraduate chemistry students in general and organic chemistry
- Design and implement a new student sample submission system for organic chemistry labs

Service Chair, Phi Lambda Upsilon, Alpha Gamma Chapter

2018-2020

- Organized and executed two large-scale science shows for 100+ middle and elementary school students
 - Oversaw 60+ volunteers for outreach and fundraising efforts throughout the year including a clothing drive and charity social hour
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SKILLS

Selected Techniques: NMR, HPLC, MS (ESI, MALDI, ACPI), IR, UV-Vis, Fluorescence, Cell culture, Flow cytometry, Plate reader, ICP

Software Packages: MestreNova, ChemDraw, VnmrJ, ImageJ, MATLAB, RStudio, Origin, GraphPad Prism, Photoshop, Office

Programming Languages: Python, R, MATLAB, Bash, Google Apps Script

SELECTED PUBLICATIONS (2 OF 5)

1. **Eleanor Kemper**, Tara Gillmore, Rati Akesh, Georgette Johnson, Riva Burden, and Thomas J. Kohl. *MR imaging of biomarkers in reproductive cancer and disease*. Imaging in 2020. Jackson Hole, WY September, 2016 (Poster)
2. **Eleanor Kemper**, Tara Gillmore, Rati Akesh, Georgette Johnson, Riva Burden, Thomas J. Kohl. *Molecular probes for non-invasive visualization of hormone receptor expression and activity in disease*. Vanderbilt Institute of Chemical Biology Student Research Symposium. Nashville, TN August, 2015 (Poster)