

JANICE E. FRIEND, PH.D.

EXPERIENCE

Washington and Lee University: Visiting Assistant Professor of Chemistry and Biochemistry, July 2019-present

- Teaching upper-level Biochemistry lecture and lab, and Chemistry lab, courses
- Testing a new interactive educational model for the course; teaching science writing to future researchers and physicians
- Awarded course improvement grant from the Dean's Office to design and implement a new Biochemistry 12-week lab module

Washington and Lee University: Visiting Assistant Professor of Biology, Winter 2019

- Taught an upper-level, workshop-based Biochemistry course for science majors, focused on helping students translate theoretical knowledge to real-life conditions

Virginia Military Institute: Instructor, Chemistry, 2014-2019, and Biology, 2017-Dec. 2019

- Awarded Jackson-Hope Grant for New Directions in Teaching and Research (2019), with Dr. Mary Beth Manjerovic, to re-design the curriculum of the required General Biology sequence for non-majors, developing interactive laboratory modules and cooperative content on science, ethics, and society. Guided and collaborated with an 8-person teaching staff
- Piloted curriculum changes; re-wrote and tested a semester of biochemistry labs; engaged students by connecting material with science in everyday life
- Taught first-year students from diverse backgrounds and developed study skills, reasoning, logic, and scientific writing.

Epic Systems Corporation: Technical Services Engineer, January 2009 – April 2010

- Led four-person support team for Kaiser Permanente of Southern California
- Interfaced between developers and end users to translate business needs into IT solutions
- Managed and solved complex software and database issues, including performance, end-user optimization, and a two-version major upgrade
- Learned two new programming languages and successfully developed new software for interfaces, reporting, and documentation

Grant Consultant and Editor, 2006-present

- Provided structure and interest to grants in biology and chemistry fields. Successful grants with the NIH, American Cancer Society, and Jeffress Memorial Trust.
- Grant consultant for Discovery Heights, a children's museum project in Lexington

EDUCATION

Yale University, New Haven, CT, 2009, 2005

Ph.D. and M.S., Molecular, Cellular & Developmental Biology

- Biochemical and genetic research on mitotic control of nonmuscle myosin II.

- Elucidated the regulatory network governing a crucial cell-division myosin via genetics, light and electron microscopy, and protein purification techniques.
- Discovered several novel regulatory features.

Kenyon College, Gambier, OH, 2002

B.A., Chemistry, French Studies; *summa cum laude*; Phi Beta Kappa. Summer Undergraduate Research Scholar.

PUBLICATIONS

Fission yeast Myo2: Molecular organization and diffusion in the cytoplasm. Friend JE, Sayyad WA, Arasada R, McCormick CD, Heuser JE, Pollard TD. *Cytoskeleton* (Hoboken). 2018 Apr;75(4):164-173. doi: 10.1002/cm.21425.