

ALEXIS COURTNEY, PH.D.

LECTURER IN CHEMISTRY

Boston University

EDUCATION

DOCTOR OF PHILOSOPHY • 2019 • BOSTON UNIVERSITY

Advisor: Associate Professor Aaron Beeler

Dissertation Title: Harnessing Continuous Flow Chemistry as a Synthetic, Biological, and Educational Tool

BACHELOR OF SCIENCE • 2013 • BAY PATH UNIVERSITY

B.S. Honors in Forensic Science, *Summa Cum Laude*, Minors: Chemistry and Math

Honors Thesis: The Effects of Different Starch Substrates on α -amylase Activity

POSITIONS

LECTURER IN CHEMISTRY • BOSTON UNIVERSITY • 2020-PRESENT

Organic Chemistry I (CH203), Principles of Organic Chemistry (CH174), Principles of Organic Chemistry and Biochemistry Laboratory (CH172/174). Organized discussions, developed course content, and provided Learn from Anywhere (LfA) course model for students.

POSTDOCTORAL FELLOW • SMITH COLLEGE • 2019-2020

Associate Professor David Gorin

Mentored undergraduates, nucleic acid modification, methodology development, assay development.

AWARDS

Boston University College of Arts and Sciences Outstanding Teaching Fellow, Chemistry (2016)

Bay Path College Who's Who Among Students (2013)

Maroon Key National Honor Society (2012)

Bay Path College Biomedical Research Award (2012)

Bay Path College Thomas Carr Award (2011)

OTHER TEACHING EXPERIENCE

Guest Lecturer and Grader, *General Chemistry and Organic Chemistry*, Smith College (2019-2020)

Laboratory Instructor Teaching Fellow, *Interdisciplinary Science Experience II*, Boston University (2017)

Course Instructor, *Summer Challenge: Chemistry of Medicine*, Summer Term, Boston University, (2016-2018)

Discussion and Laboratory Teaching Fellow, *Intensive Organic Chemistry I & II, Organic Chemistry I & II, General Chemistry for Engineers*, Boston University (2013-2017)

Professional Development in Teaching

Chem Ed Supergroup (2020-Present)

Managing the LfA Experience, Boston University (2020)

Hands on Teaching Lightning Talk, Boston University (2020)

Long Block & Large Lecture Classes Lighting Talk, Boston University (2020)



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COURTNEY

Future Faculty Workshop (2020)
Sigma Xi Seminars, Smith College (2019-2020)
Weekly Teaching Arts Lunches, Smith College (2019-2020)
What the Best College Teachers Do Workshop, Smith College (2020)
Scholarship of Teaching and Learning Scholar, Boston University (2017-2018)
Preparing for Finals Workshop, Boston University (2017)
Leading Engaging Discussions Workshop, Boston University (2017)
Teaching at Teaching Intensive Institutions, Westfield State (2017)
Using Early Feedback to Inform Your Teaching Workshop, Boston University (2017)
Graduate Student Teaching Day, Boston University (2017)
An Introduction to Evidence-Based Undergraduate STEM Teaching, Boston University EdX (2017)

SERVICE

Alpha Sigma Kappa, Faculty Advisor (2021-present)
REU Program, Co-Coordinator in Training (2020-present)

PRESENTATIONS

Oral Presentations

Biennial Conference on Chemical Education, Notre Dame, IN (2018)
Bringing interdisciplinary drug discovery research methods into the organic chemistry laboratory. A. Courtney, B. Benedictis, D. Sheehy, L. Pastorino, J.K. Snyder

Honors Thesis Public Defense, Longmeadow, MA (2013)
The Effects of Different Starch Substrates on α -amylase Activity. A. Courtney, E. Bernstine

Invited Talk: Spotlight on Student Excellence, Longmeadow, MA (2012)
The Effects of Time Delayed Expression on MIOX Activity

Poster Presentations

American Chemical Society Symposium, Virtual (2020)
Progress toward DNA-conjugated transition metal complexes for site-selective deprotection

Novartis Institute for Biomedical Research BUWIC Symposium, Boston, MA (2017)
Synthesis and medicinal chemistry of cyathane diterpenoid inspired scaffolds

Boston Symposium in Organic and Bioorganic Chemistry, Boston, MA (2015)
Synthesis and medicinal chemistry of cyathane diterpenoid inspired scaffolds
With mentees: R. Rosen & B. Reinhardt

American Chemical Society Symposium, Boston, MA (2015)
Synthesis and medicinal chemistry of cyathane diterpenoid inspired scaffolds
With mentees: R. Rosen & B. Reinhardt

MIT Summer Research Program Symposium, Cambridge, MA (2013)
The Effects of Time Delayed Expression on MIOX Activity



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PUBLICATIONS

A. Courtney, S. Kumta, A. Beeler. Flow Pyrrole Synthesis in the Organic Chemistry Laboratory, *J. Flow Chem.*
Manuscript submitted

A. Courtney, D. Gorin. Enzyme Inspired Site-Selective Transformations, *Bioconj. Chem. Invited Review, manuscript in preparation*

MENTORING

Shruti Kumta (UROP 2018-2019); Yumeto Shigihara, Alana Danison, Bethany Sargent (2018); Christine Flatley (2016); Rachel Rosen (UROP 2014-2016); Kayla Myers (2015-2016); Benjamin Reinhardt (REU 2015); Gerardo Colon (REU 2014)

OUTREACH EXPERIENCE

Chemistry Demonstrator

TRSD Career Fair (2018), SET in the City (2018), Hamilton Science Night 2016, TRHS (2016), Lincoln School Science Night (2015-2016), BUWIC Chemistry Day (2015)

Outreach Coordinator

BUWIC High School Chemistry Day (2016-2017), Summer Pathways (2015, 2017), Upward Bound (2014, 2016), Vertex Research Program (2015), Girl Scout Forensics Day (2009-2013)

Science Fair Judge

John D. O'Bryant School (2017), Brighton High School (2015)

MEMBERSHIPS

American Chemical Society 2012-present

Northeastern Section of the American Chemical Society 2012-present



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