

MOLLIE ENRIGHT

mollie.enright@rockets.utoledo.edu

[LinkedIn: Mollie Enright](#)

(508)-951-6907

Curriculum Vitae

EDUCATION

University of Toledo – Toledo, OH *Expected 2023*
Doctor of Philosophy, Chemistry

Gordon College – Wenham, MA *2015*
Bachelor of Science: Chemistry, *Magna Cum Laude*
Honors Thesis: “*Greening an antioxidant analysis: a new method of lycopene extraction using 2-methyltetrahydrofuran*”

University College Dublin – Dublin, Ireland *Spring 2014*
Study abroad focused on agricultural chemistry

PROFESSIONAL EXPERIENCE

Program Manager, [Beyond Benign, Inc.](#), Wilmington, MA *June 2015-present*

- Manages all K-12 program and projects at green chemistry education non-profit
- Contributes to writing and training educators in science curriculum for elementary, middle, and high school science content

Undergraduate Research in Green Chemistry, Gordon College *Fall 2013-May 2015*
Research Advisor: [Jennifer Noseworthy, Assistant Professor](#), Department of Biology

- Investigated alternative method of lycopene extraction from tomato fruit using less hazardous solvents while generating less waste
- Compared methods of extraction by HPLC and UV-Vis spectroscopy

Undergraduate Research in Computational Chemistry, Gordon College *Fall 2014-Spring 2015*
Research Advisor: [Mike Paul, Associate Professor](#), Department of Chemistry
Consulting Advisor: [A. Daniel Jones, Professor](#), Michigan State University

- Optimized model ionization of acylsugars occurring within MS via CID using Gaussian and MacMolPlt

Research Associate, [PlantGenomics @ MSU REU](#), Michigan State University *Summer 2014*
Research Advisor: [A. Daniel Jones, Professor](#), Department of Chemistry

- Isolated metabolites from *Petunia axillaris* using solid phase extraction/semi-preparative HPLC
- Elucidated structures using UHPLC/TOF-MS and 1-D and 2-D NMR to evaluate commonalities between various acylsugars

Laboratory Teaching Assistant, Gordon College *Spring 2012-Spring 2015*
Department of Chemistry

- Organized and delegated all jobs related to General Chemistry laboratory preparation
- Tutored students in general and organic chemistry labs in regard to technique and conceptual understanding

HONORS AND AWARDS

NSF Student Travel Scholarship to attend 19th Green Chemistry & Engineering Conference *June 2015*
Chemistry Teaching Assistant of the Year, Gordon College *May 2015*

INSTITUTIONAL AND PROFESSIONAL SERVICE

Graduate Student Liaison, Beyond Benign, Inc. *Aug 2018-present*

- Represent green chemistry education non-profit to students, faculty and other stakeholders through local, national and virtual events

Workshop Organizer & Presenter, 50th ACS Central Regional Meeting *June 2019*

- Organized and facilitated satellite location of *Beyond Benign: Sustainable Innovations* workshop at University of Toledo as a part of the meeting's distance learning program

Symposium Organizer & Presider, 255th, 257th, 259th ACS National Meeting & Expo *March 2018, 2019, 2020*

- Co-organized undergraduate symposium with ACS Green Chemistry Institute: "Green chemistry student chapters: stories of success"

Workshop Organizer & Presenter, [ACS Green Chemistry & Engineering Conference](#) *June 2017, 2018*

- Organized and facilitated workshops for post-doc, graduate, and undergraduate students with team of faculty and other young professionals alongside ACS Green Chemistry Institute

Organizer, [Tools for Integrating Green Chemistry in Your Classroom](#) Virtual Conference *Feb 2018*

- Co-organized virtual conference with the Chemical Education Xchange for high school and college educators using a combination of academic papers, videos and lesson plans

Facilitator, Go Green to Go Gold Symposium, Wayne State University *Nov 2017*

- Led hands-on workshop for multiple ACS student chapters and faculty advisors highlighting green chemistry outreach activities

Collaborator, [ACS Global Innovation Imperative](#), Belém, Pará, Brazil *Nov 2016*

- Developed plan of action alongside chemical educators from across Brazil, UK, and Oregon to bring green chemistry experiments to remote locations in Brazil

Volunteer, [BizNGO Chemical Footprint Conference](#) *Dec 2015*

- Supported general event facilitation at conference highlighting efforts in chemical footprint management by various brands

Green Chemistry Outreach Project, Bridgewater Middle School, MA *Fall 2012-Spring 2013*

- Developed and facilitated workshops with team of three Gordon College students to introduce concepts of green chemistry to multiple groups of 100 8th grade students

PUBLICATIONS

"Profiling, isolation and structure elucidation of specialized acylsucrose metabolites accumulating in trichomes of *Petunia* species". Liu, X.; **Enright, M.**; Barry, C. S.; Jones, A. D. *Metabolomics* **2017**, *13* (7), 1–10.

"Greening an antioxidant analysis: a new method of lycopene extraction using 2-methyltetrahydrofuran". **Enright, M.** Honors thesis, Gordon College, May 2015.

SELECTED RESEARCH PRESENTATIONS

"'Greener' sample preparation of lycopene from tomato (*Lycopersicon esculentum*) for quantification by UV/Vis spectrophotometry and high performance liquid chromatography". **Enright, M.**, Noseworthy, J. Poster presented at Green Chemistry & Engineering Conference, Bethesda, MD, United States, July 14, 2015.

"Further defining acylsugar structural diversity within *Petunia axillaris*". **Enright, M.** Poster presented at 249th ACS National Meeting & Expo, Denver, CO, United States, March 22-26, 2015.

"Green extraction of lycopene from tomato (*Lycopersicon esculentum*) using 2-methyltetrahydrofuran". **Enright, M.**, Noseworthy, J. Oral presentation at 249th ACS National Meeting & Expo, Denver, CO, United States, March 22-26, 2015.

"Effect of high tunnel use on lycopene content in "Brandywine" and "Jet Star" tomatoes (*Lycopersicon esculentum* Mill.)". **Enright, M.**, Noseworthy, J. Poster presented at 247th ACS National Meeting & Expo, Dallas, TX, United States, March 16-20, 2014.

SELECTED PROFESSIONAL PRESENTATIONS

"Sustainable textiles: Threads that connect us all". **Enright, M.**, Anderson, K., Natoli, T. Oral presentation at 254th ACS National Meeting & Expo, Washington, DC, United States, August 20-24, 2017.

“Green chemistry lead teachers: Advancing K-12 chemical education”. **Enright, M.**, Anderson, K., Natoli, T. Oral presentation at 21st Green Chemistry & Engineering Conference, Reston, VA, United States, June 12-14, 2017.

“Students driving the future of green chemistry through higher education and outreach”. **Enright, M.**, McCarthy, A. Oral presentation at 21st Green Chemistry & Engineering Conference, Reston, VA, United States, June 12-14, 2017.

“Are mushrooms the new plastics?: Harnessing student design thinking using ecovative materials”. **Enright, M.**, Anderson, K. Oral presentation at 253rd ACS National Meeting & Expo, San Francisco, CA, United States, April 2-6, 2017.

“Incorporating NGSS by utilizing green chemistry innovations in the classroom”. **Enright, M.**, Anderson, K. Oral presentation at 251st ACS National Meeting & Expo, San Diego, CA, United States, March 13-17, 2016.

“Science of Service: Gordon College’s student chapter of the American Chemical Society”. Gray, D., Marshall, B., Walsh, L., Fjellstad, B., Andujar, D., **Enright, M.** Poster presented at 249th ACS National Meeting & Expo, Denver, CO, United States, March 22-26, 2015.

LEADERSHIP ACTIVITIES

Circular Plastics Economy Symposium, <i>Andover, MA</i>	November 2017
ACS Student Chapter Member, <i>Gordon College</i>	Aug 2011-May 2015
Student Ambassador, <i>Gordon College</i>	Aug 2014-May 2015
Outreach Team Coordinator, <i>Windrush Farm & Gordon College</i>	Jan 2012-Dec 2013
Eastern Region Co-Chair of Nominating Committee, <i>National FFA Organization</i>	Fall 2013
Massachusetts Representative, National Agriculture Day, <i>Washington, DC</i>	March 2012
National FFA State Presidents’ Conference, <i>Washington, DC</i>	July 2011
National Leadership Conference for State FFA Officers, <i>Oswegatchie, NY</i>	June 2011
Building Leaders & Strong Teams of Officers (BLAST Off) Conference, <i>Dighton, MA</i>	May 2011
State President, <i>Massachusetts FFA Association</i>	March 2011-March 2012

MENTORING AND OUTREACH

Green Chemistry Exhibit & Team Coordinator, <i>USA Science & Engineering Festival</i>	April 2016, 2018
Career Workshop Facilitator, <i>Massachusetts FFA Association</i>	March 2016, 2017
Green Chemistry Careers Presenter, <i>Wilmington High School</i>	Nov 2016
Judge of Prepared Public Speaking, Eastern Region Conference, <i>National FFA Organization</i>	Sept 2016
STEM Careers Panel Organizer, <i>Girls, Inc. of Lynn</i>	April 2016
Mentor of student interns, <i>Beyond Benign, Inc.</i>	Jan 2016-2018
Family Festival Volunteer Coordinator, <i>Bioneers Conference</i>	Oct 2015
Keynote Speaker at STEM Day, <i>St. Christopher’s School</i>	March 2015
Tutor, <i>La Vida Scholars</i>	Fall 2013, 2014
Nominating Committee Coordinator, <i>Massachusetts FFA Association</i>	March 2013
Service Trip Participant, <i>Educational Concerns for Hunger Organization (ECHO)</i>	March 2013
Nominating Committee Member, <i>Connecticut FFA Association</i>	May 2012
Speaker, President’s Retiring Address, <i>82nd Massachusetts FFA Convention</i>	March 2012
Leadership Workshop Facilitator, <i>Massachusetts FFA Association</i>	Winter 2011
Keynote Speaker at Annual Meeting, <i>Massachusetts Farm Bureau</i>	December 2011
Keynote Speaker at FFA Awards Banquet, <i>Smith Vocational High School</i>	May 2011
Speaker at Agriculture Day at the State House, <i>Boston, MA</i>	April 2011

PROFESSIONAL SOCIETY MEMBERSHIPS

Network of Early-Career Sustainable Scientists & Engineers (NESSE), <i>member</i>	Summer 2015-present
American Chemical Society, <i>member</i>	Fall 2013-present
American Association of Chemistry Teachers, <i>member</i>	Spring 2016-2018