136 Highland Ave #28 ¥Somerville, MA 02143 Cell Phone: (609) 618-6348 ¥ Work Phone: (617) 452-2761 E-Mail: arlong@mit.edu

EDUCATION

Florida State University ĐTallahassee, FL

Aug. 2010 Đ Aug. 2015

Ph. D., Organic Chemistry

Thesis Title: OAccess to Polysubstituted Heterocycles and Fluorescent Indicators

from a Single Enamine ClassÓ

Aug. 2006 Đ May 2010

B.Sc.ÕsBiomedical Science and Chemistry, Highest Honors, magna cum laude Honors Thesis Title: ÒThe Development of an Effective WaterSoluble Receptor for Pyrene Derivative DyesÓ

RESEARCH AND P

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the girls in subjects such as engineering and physics and promoted their interest in the sciences.

Mentorship ÐFSU & MIT

January 2012 to Present

Mentored a total of four undergraduates, four graduate, and two visiting students. Mentorship roles included:

- ¥ Developing suitable projects for undergraduates and visiting students
- ¥! Educating mentees on responsible, reliable, and safe techniques in organic chemistry
- ¥! Advising students on how to develop and test hypotheses
- ¥! Helping prepare graduate students for their qualifying exams
- ¥! Involving students in the publication process

2011 Spring & Fall Semesters

Responsibilities included:

- ¥! Conducting two 50-minute review sessions once a week with ca. 40 students each
- ¥! Holding office hours once a week
- ¥! Preparing quizzes and tests, grading

Department of Chemistry & Biochemistry Outreach Program DFSU

Aug. 2010 Đ Aug. 2011

Other graduate students and I traveled to local middle and high schools to perform chemistry demonstrations to children during their science class. Each graduate student was responsible for leading and educating the class on one or two demonstrations. Demonstrations included the iodine clock experiment, synthesizing slime, igniting gun cotton, and freezing objects in liquid nitrogen.

Teaching Assistant for Organic II Laboratories DFSU

Responsibilities included:

¥! Teaching one lab section

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8583.

- 7. <u>Longstreet, A.R.</u>; Jo, M.; Chandler, R.R.; Hanson, K.; Zhan, N.; Hrudka, J.J.; Mattoussi, H.; Shatruk, M.; McQuade, D.T. Ylidenemalononitrile Enamines as Fluorescent ÒTurnOnÓ Indicators for Primary Amines. J. Am. Chem. Soc. 2014, 136, 15493.
- 6. <u>Longstreet, A.R.</u>; Opalka, S.M.; Campbell, B.S.; Gupton, B.F.; McQuade, D.T. Investigating the Continuous Synthesis of a Nicotinonitrile Precurser to Nevirapine. Beilstein J. Org. Chem. 2013, 9, 2570. Invited article for the OChemistry in Flow Systems IIIO thematic series.
- 5. <u>Longstreet, A.R.</u>; Campbell, B.S.; Gupton, B.F.; McQuade, D.T. Improved Synthesis of Mono- and Disubstituted 2-Halonicotinonitriles from Alkylidene Malononitriles. Org. Lett. 2013, 15, 5298.
- 4. Opalka, S.M.; Park, J.K.; Longstreet, A.R.; McQuade, D.T. Continuous Synthesis and Use of N-Heterocyclic

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E-Mail:	arlong@mit.edu	
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DeanÕs Award for Best Poster at C Student Scholar Showcase Đ2 nd Place	2010
Iota Sigma Pi DNational Honor Society for Women in Chemistry (inducted)	2009
Phi Kappa Phi Đ National Academic Honor Society (inducted)	2009
Omicron Delta Kappa & National Leadership Honor Society (inducted)	2009
Beta Beta Beta DNational Biological Honor Society (inducted)	2009
Volunteer Award Đ Lynchburg College Emergency Medical Services	2007
Westover Honors Program	2007-2010
Phi Eta Sigma Đ National Freshman Honor Society (inducted)	2007

LEADERSHIP AND SERVICE ACTIVITIES

REFERENCES

D. Tyler McQuade

Program Manager
Defense Sciences Office
Defense Advanced Research Projects Agency
675 North Randolph Street
Arlington, VA 22203-2114
(850) 524-7660
tylermcquade@gmail.com

Michael Shatruk

Professor of Chemistry
Department of Chemistry & Biochemistry
Florida State University
95 Chieftan Way
Tallahassee, FL 32306
(850) 417-8417
shatruk@chem.fsu.edu

Timothy F. Jamison

Professor of Chemistry, Department Head Department of Chemistry Massachusetts Institute of Technology 77 Massachusetts Ave., Bldg 18-590 Cambridge, MA 02139 (617) 253-2135 tfj@mit.edu