

# MARIE VAN STAVEREN

## Education

**Ph.D., Chemistry (Chemical and Materials Physics)**, University of California, Irvine, October 2012

**M.S., Chemistry (Chemical and Materials Physics)**, University of California, Irvine, March 2012

**B.S., Chemistry**, University of Michigan, Ann Arbor, MI, 2007

## Experience in Higher Education

2017 - Present	University of Maryland, Baltimore County, Lecturer, Chemistry
2015 - 2017	Community College of Baltimore County, Adjunct Professor, Chemistry
2016 - 2016	Notre Dame of Maryland, Associate Faculty, Chemistry
2012 - 2015	Gateway Community College, Adjunct Professor, Chemistry
2012 - 2015	Yale University, Lecturer, Chemistry
2007 - 2012	University of California, Irvine, Teaching Assistant, Chemistry

## Honors Received

2020	CNMS Fellow in Online Instruction, UMBC
2020	UMBC CelebratingOrgs Adviser of the year
2019	Active Learning, Inquiry Teaching (ALIT) Certificate, UMBC Faculty Development Center
2011	Contributions to Undergraduate Education Award, University of California, Irvine
2011	Most Promising Future Faculty Member, University of California, Irvine
2010	Pedagogical Fellow, University of California, Irvine

## Publications: Peer Reviewed

**van Staveren, M.**, "Integrating Python into a Physical Chemistry Lab", *Journal of Chemical Education*, **99**, 7, 2604 - 2609, (2022).

Goldschleger, I., **van Staveren, M.**, Apkarian, V. A., "Quantum Tomography of a Bond in Ice", *Journal of Chemical Physics*, **139** 034201, (2013).

**van Staveren, M.**, Edwards, K. D., Apkarian, V. A., "Playing with light: Adventures in optics and spectroscopy for honors/majors general chemistry", *Journal of Chemical Education*, **89**, 11, 1447-1449, 2012.

**van Staveren, M.**, Apkarian, V. A., "Dynamically skewed lines: Rotations in superfluid helium", *Journal of Chemical Physics*, **133** 054506 (2010).

Branigan, E., **van Staveren, M.**, Apkarian, V. A., "Ultrafast Dynamics of Liquid Bromine from Frequency Domain Measurements", *Journal of Chemical Physics*, **132** 044503 (2010).

## Presentations: Conferences

"Python in Physical Chemistry Lab", Contributed talk, *Biennial Conference on Chemical Education*, August 2022, West Lafayette, IN.

**van Staveren, M.**, Kesner, L., "Argumentation sessions in physical chemistry lab", Contributed talk, *Biennial Conference on Chemical Education*, August 2022, West Lafayette, IN.

"All-feedback-no-grades: Ungrading in an upper level lab course", Contributed talk, *American Society for Microbiology Conference for Undergraduate Education*, June 2021, Online.

"Taking advantage of the length of a lab session to teach writing and communication skills for chemistry majors", submitted, *Biennial Conference on Chemical Education*, July 2020, Corvallis, OR.

- "Using physical chemistry lab to teach practical programming skills to chemistry majors", submitted, *Biennial Conference on Chemical Education*, July 2020, Corvallis, OR.
- "Using Affective Science to Create Community in Lab Courses", Contributed talk, *ChemEd*, Naperville IL, July 2019.
- "The role of community in upper division labs", Contributed talk, *Mid-Atlantic Regional Meeting*, Baltimore MD, June 2019.
- van Staveren, M.**, Apkarian, V. A., "Simulating Four Wave Mixing on Br<sub>2</sub> in Amorphous Ice", Poster Presentation, *ACS National Meeting, Denver, August 2011*.
- van Staveren, M.**, Edwards, K. D., "Playing with Light: Adventures in Optics and Spectroscopy", Poster Presentation, *ACS National Meeting, Denver, August 2011*.
- van Staveren, M.**, Branigan, E., Apkarian, V. A., "Interrogation of Liquid Bromine Dynamics: Resonance Raman and Absorption Spectroscopy", Contributed Talk, *Western Spectroscopy Conference, February 2010*.
- Perdue, S., **van Staveren, M.**, Whitmore, D., Apkarian, V. A., "Time-frequency resolved CARS of a multi-mode system", Poster Presentation, *Western Spectroscopy Conference, January 2009*.

### Other Professional Presentations

- van Staveren, M.**, Arie P., "Panopto Editing and Quizzing", UMBC DoIT, September 14th, 2020.
- "Higher Ed Pedagogy", Nerd Nite Baltimore, February 12th 2020.
- "Chemical Are Delicious: What's in Your Food and Why You (Probably) Want It There", Nerd Night Baltimore, March 15 2016.
- van Staveren, M.**, El-Khoury, P. Z., Warnke, I., Tapavicza, E., "Vibronic dynamics: Experiment and theory", Student Talk, *NSF Site Visit, May 12, 2011*.
- Branigan, E., **van Staveren, M.**, Apkarian, V. A., "Ultrafast Dynamics of Liquid Bromine from Frequency Domain Measurements", Poster Presentation, *ISIS Poster Session, December 4, 2009*.
- van Staveren, M.**, Whitmore, D., Perdue, S., Apkarian, V. A., "Time-frequency resolved coherent anti-Stokes Raman scattering", Poster Presentation, *GAANN Fellowship Poster Reception, October 22 2008*.

### Service to the Department

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|----------------|--|
| 2022 - Present | Member, Upper-Level Curriculum Alignment Committee                       |
| 2022           | Member, General Chemistry Lab Lecturer hiring committee                  |
| 2020 - 2021    | Member, ad-hoc committee on hybrid labs during the COVID-19 pandemic     |
| 2020           | Member, General and Analytical Chemistry Term Lecturer hiring committee  |
| 2019 - 2020    | Member, Analytical Chemistry Lab Overhaul Committee                      |
| 2017 - Present | Professional Development Committee                                       |
| 2017 - Present | Faculty adviser to the student chapter of the American Chemistry Society |
| 2017 - Present | Advisor for Chemistry Majors   |

### Service to the University

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|----------------|---|
| 2022 - Present | Facilitator, Faculty Learning Community: Flexible, Alternative, or "Un" grading Strategies                              |
| 2021 - 2022    | Member, Faculty Learning Community: Fostering Pedagogies that Engage and Support Transfer Students                      |
| 2020 - 2021    | Member, Faculty Learning Community: Fostering Student Engagement Online: Approaches, Techniques, and Tools              |
| 2020 - 2022    | Member, CNMS Online Labs Affinity Group   |
| 2018 - 2019    | Member, Faculty Learning Community, Cultivating critical thinking: Integrating information literacy into course content |

**Service to the Profession**

2022 - Present	Member, Enhancing Science Courses by Integrating Python
2021 - Present	Member, Argument-Driven Inquiry Working Group
2020 - Present	Chair, ChemTWITTER discussion group
2018 - 2019	Co-chair of Undergraduate Programming, Mid-Atlantic Regional Meeting of the ACS
2013 - 2016	Member, National Science Teachers Association
2009 - Present	Member, American Chemical Society, Division of Chemical Education

I certify this document accurate and true.