

CURRICULUM VITAE

MARIE VAN STAVEREN

EDUCATION

Ph.D.	2012	University of California Irvine, Chemistry (Chemical and Materials Physics)
M.S.	2012	University of California Irvine, Chemistry (Chemical and Materials Physics)
B.S.	2007	University of Michigan, Chemistry

Experience in Higher Education

2023 – Present	University of Maryland Baltimore County, Associate Teaching Professor, Chemistry
2017 – 2023	University of Maryland Baltimore County, Lecturer, Chemistry
2015 – 2017	Community College of Baltimore County, Adjunct Professor, Chemistry
2016 – 2016	NotreDame 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

Pedagogical Interests

Community building, inclusive pedagogies, programming, alternative grading, laboratory pedagogy.

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

Fellowships

2024 – Present	NSF MolSSI ACT-CMS Faculty Fellowship, \$10,000
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PUBLICATIONS, PRESENTATIONS, AND CREATIVE ACHIEVEMENTS

Publications: Peer Reviewed

- van Staveren, M.**, “Teaching Chemists to Code with Diversity in Mind: A Pedagogy of Belonging for End-user Conditions”, *Engaging Students in Physical Chemistry*, Vol. 2, American Chemical Society, Accepted.
- van Staveren, M.**, “Integrating Python into a Physical Chemistry Lab”, *Journal of Chemical Education*, **99**, 7, 2604 – 2609, 2002.
- 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 notebooks for physical chemistry laboratory analysis: The effect of choice on student analysis software”, Contributed talk, *American Chemical Society National Meeting*, August 2025, Washington DC.
- “Teaching Programming with Diversity in Mind”, Contributed talk, *Biennial Conference on Chemical Education*, August 2024, Lexington, KY.
- “Ungrading Methods to Help Students Make Meaning During Lab Time”, Contributed talk, *Biennial Conference on Chemical Education*, August 2024, Lexington, KY.
- “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 Br₂ in Amorphous Ice”, Poster Presentation, *American Chemical Society National Meeting*, Denver, August 2011.
- van Staveren, M.**, Edwards, K. D., “Playing with Light: Adventures in Optics and Spectroscopy”, Poster Presentation, *American Chemical Society 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

- “Ungrading Practices to Center Our Own and Our Students’ Full Selves”, UMBC Provost’s Teaching & Learning Symposium, September, 2025.
- “Pedagogical techniques to increase belonging when teaching coding”, MolSSI ACT-CMS Faculty Fellows Workshop, June 2025, Blacksburg VA.

“Data analysis notebooks for physical chemistry lab”, MolSSI ACT-CMS Faculty Fellows Workshop, June 2025, Blacksburg VA.

Harrison, J., **van Staveren, M.**, Keniston, C., Kobren, M. “Can Alternative Grading Approaches Motivate Students and Help them Focus on Learning? Exploring ‘Ungrading’ ”, UMBC Faculty Development Center, March 2025.

“Teaching Science Students to Code With a Community Orientation”, ESCIP Workshop, May 2023, New York, NY.

“Community in the laboratory”, UC Irvine Chemistry and Biochemistry Department Seminar in Chemical Education, January 2023, online.

van Staveren, M., Arie P., “Panopto Editing and Quizzing”, UMBC DoIT, September 2020, online.

“Higher Ed Pedagogy”, Nerd Nite Baltimore, February 2020.

“Chemical Are Delicious: What’s in Your Food and Why You (Probably) Want It There”, Nerd Night Baltimore, March 2016.

van Staveren, M., El-Khoury, P. Z., Warnke, I., Tapavicza, E., “Vibronic dynamics: Experiment and theory”, Student Talk, NSF Site Visit, May 2011.

Branigan, E., **van Staveren, M.**, Apkarian, V. A., “Ultrafast Dynamics of Liquid Bromine from Frequency Domain Measurements”, Poster Presentation, *ISIS Poster Session*, December 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 2008.

SERVICE

Service to the Department

2025	Event co-Lead, Materials Science, UMBC Science Olympiad
2024	Event co-Lead, Detector Building, UMBC Science Olympiad
2023	Presenter, Python for Chemists Workshop
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	Member, Professional Development Committee
2017 – Present	Faculty adviser, UMBC American Chemical Society Student Chapter
2017 – Present	Academic advisor, Chemistry majors

Service to the University

2025	Presenter and volunteer coordinator, 8 th grade university visits
2022 – 2023	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

2025	Presider, “General Papers: Teaching Techniques”, American Chemical Society National Meeting
2024	Symposium Organizer, “Pedagogical innovations for upper division labs”, Biennial Conference on Chemical Education
2021 – 2023	Member, Argument-Driven Inquiry Working Group
2020 – 2024	Chair, ChemTWITTER discussion group
2018 – 2019	Co-chair of Undergraduate Programming, Mid-Atlantic Regional Meeting of the American Chemical Society

Ad Hoc Manuscript Review for:

- The Journal of Chemical Education
- ACS Symposium Series

Memberships and Affiliations:

2024 – Present	Molecular Sciences Software Institute (MolSSI) Accelerating Curricular Transformation in the Computational Molecular Sciences
2022 – Present	Enhancing Science Courses by Integrating Python
2013 – 2016	National Science Teachers Association
2009 – Present	American Chemical Society

I certify that this document is accurate and true.



Marie van Staveren

9/28/2025