

Education

Ph.D., Physical Chemistry. University of Virginia, Charlottesville, VA Dissertation: <i>Adsorption on sp² hybridized carbon surfaces</i> with John T. Yates, Jr.	2012
B.S., Chemistry, The College of Charleston, Charleston, SC Honors College, minor in Psychology, <i>cum laude</i>	2007

Positions held

Assistant Director for Engineering Education Initiatives & Assistant Professor, General Faculty Center for Teaching Excellence (CTE), University of Virginia	2019 - present
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Educational development activities

- **UVA Engineering Teaching Fellow Program** (formerly Graduate Teaching Internship & Postdoctoral Teaching Fellowship)
A program for graduate students and postdocs to co-teach with faculty. Responsibilities include: Coordinate and facilitate hybrid cohort meetings on co-teaching, and facilitate course design for mentor-mentee pairs. Collaborate on solicitation, participant selection, web presence, and assessment with Engineering Graduate Studies office. Fall and Spring cohorts.
- **c³Design facilitation**
An interactive online course design program with structure support. Responsibilities include: Facilitate cohorts of instructors redesigning their courses. Convene topical meetings, provide consultation and feedback on materials. Summer and January cohorts.
- **Teaching Continuity website**
A pandemic pedagogy resource. Responsibilities include: Create, coordinate, and update university resources for COVID-19 response at teachingcontinuity.virginia.edu.
- **CTE workshops**
Offerings for UVA faculty, including single and multi-day engagements. Responsibilities include: Design or co-design and facilitate or co-facilitate pedagogical workshops for faculty and graduate students.
- **CTE Instructional and Curricular Consultations**
On-demand or planned opportunities for specific conversations. Responsibilities include: Consult with instructors and instructional or curricular teams about teaching, classroom-based research, and curricular design concerns. Observe teaching, conduct student focus groups, and provide formative feedback to instructors. Facilitate curricular conversations among multiple instructors and support select Curricular Redesign projects with feedback, facilitation, and data analysis.
- **CTE Innovations in Pedagogy Summit**
A UVA conference for teaching and learning. Responsibilities include: Assist with conference theme, description, and selection of keynote speaker for annual conference. Review proposals with Advisory Committee and provide feedback to presenters. Consult with keynote speaker and plan itinerary. Assuming lead next year.
- As Assistant Director for Engineering Education Initiatives, I liaise with UVA and UVA Engineering leaders about teaching- and equity-related matters including policies, curricula, faculty development, and change management.

Visiting Assistant Professor , Bates College, Dept. of Chemistry and Biochemistry	2016 - 2019
Lecturer , Auburn University, Dept. of Chemistry and Biochemistry	2014 - 2016
Co-founder and Program Coordinator , Learning Assistant Program, Auburn University	2014 - 2016

Incorporating peer facilitators into large enrollment classes
 Interviewing, managing, and instructing Learning Assistants

Postdoctoral Fellow in Teaching & Learning, Auburn University, Dept. of Chemistry and Biochemistry 2013 - 2014
 Honors Introductory Chemistry curriculum redesign and assessment

Courses taught

University of Virginia	Teaching Methods in Applied Mathematics - APMA3501/6548	2020 - 2021
Bates College	Atomic and Molecular Structure + lab - CHEM107 Atomic and Molecular Reactivity + lab - CHEM108 Quantum Chemistry - CHEM301 Statistical Thermodynamics - CHEM302 Advanced Chemical Measurement Laboratory ¹ - CHEMs37 The Making of the Atomic Bomb - FYS488	Fall 2016, 2017, 2018 Winter 2018, 2019 Fall 2016, 2017 Winter 2017, 2019 Short Term 2017 Fall 2018
Auburn University	Honors General Chemistry ¹ + lab - CHEM1117/8 and 1127/8 General Chemistry I and II - CHEM1030 and 1040 Learning Assistant Pedagogy ¹	2013 - 2016
University of Virginia	Teaching Assistant, Molecular Physical Chemistry for Chemical Engineers Teaching Assistant, Principles of Chemical Structure Laboratory	2007 - 2012

Educational development programming

<i>Book group for engineering faculty on Radical Hope: A Teaching Manifesto</i>	2022
<i>Touchstones: Conversations about Teaching</i> , with A. Streifer and guest Patrice Grimes	2022
<i>CDI2.X: Advanced Collaborative Learning with Equity</i> , with L. Wheeler (2 days)	2022
<i>Series of Conversations: A case study approach for examining Diversity, Equity, and Inclusion in STEM</i> , POD STEM×DEI Special Interest Group	2021
<i>Assessable, Student-focused Course Learning Objectives</i> , with L. Wheeler. Biomedical engineering.	2021
<i>Articulating Actionable Core Learning Proficiencies</i> , with E. Dickens. Science, Technology, and Society (1 of 2)	2021
<i>Drafting Curricular Scenarios</i> with E. Dickens. Science, Technology, and Society (2 of 2)	2021
<i>Assessment Tune-Up</i> , with D. Bach	2020
<i>Teaching Support in SEAS</i> , with M. Redwine	2020
<i>Inclusive Teaching for SEAS Graduate Students</i> with J. Jones and C. McEniry (4 part series)	2020
"Grounding equity & inclusion in data and politics of data"	
"Teaching as practice: inclusive? anti-racist?"	
"Facilitation and Intervention. Cultivating dialogue and addressing harm"	
"Academic diversity statements"	
<i>Advice for new remote teachers</i> , with the "Circle Project" outreach in SEAS Center for Diversity in Engineering	2020
<i>Socially-connected, well-paced online courses</i> , with D. Bach, R. Buckelew, K. Palmer (sync. and async.)	2020
<i>Maximizing your TA experience: power, difference, and optimism</i> , with A. Streifer	2020
<i>CDI2.X: Advanced Collaborative Learning</i> , with L. Wheeler (2 days)	2020
<i>Lecture-based courses</i> , webinar (COVID-19 response)	2020
<i>Virtual Assessment in Biology</i> , with G. Hunger (COVID-19 response)	2020

¹ Co-taught courses

Prior to September 2019, I performed educational development work alongside my duties as a faculty member at Bates College. Workshops included: *Reflective writing in the sciences*, *Tools for efficiency in academia*, *Teaching with data and data literacy*, *Motivation and collaborative learning*, *Supervising research students*, *Introduction to New Active Learning Classrooms*, and *Active Learning in Large Enrollment Courses*. Multi-day engagements included: *Summer [re]Design Learning Community* and *Short Term Innovative Pedagogy*

Select materials & non-peer-reviewed publications

Mandeltort, L. and O'Donnell, C. "Ashley and Sharon: Redirecting white women in educational development consultations," case study and recording for POD STEM×DEI Special Interest Group, October 2021, <https://bit.ly/211027script>

Mandeltort, L., with Ramirez-Weaver, E. "Loss, Burnout, and (Not) Moving On," *ConneCTEd* blog, UVA Center for Teaching Excellence, Mar 27, 2021, cte.virginia.edu/blog/2021/03/27/loss-burnout-and-not-moving-on.

Mandeltort, L. with Sloane, K., "9 Tips for Effective Teaching, According to Students," *ConneCTEd* blog, UVA Center for Teaching Excellence, Jan 21, 2021, cte.virginia.edu/blog/2021/01/15/9-tips-effective-teaching-according-students.

Mandeltort, L. with Bach, D., "Creating Social Presence," CTE newsletter, UVA Center for Teaching Excellence, June 2020, <https://us20.campaign-archive.com/?u=59708c86efd03e38dac5e978d&id=49f14b1488>.

Mandeltort, L. with Bach, D. "Creating a Thoughtful Online Teaching Persona," CTE newsletter, UVA Center for Teaching Excellence, May 22, 2020, <https://us20.campaign-archive.com/?u=59708c86efd03e38dac5e978d&id=c0706fb579>.

Mandeltort, L. with Bach, D., "Making Equity Essential," CTE newsletter, UVA Center for Teaching Excellence, May 18, 2020, <https://us20.campaign-archive.com/?u=59708c86efd03e38dac5e978d&id=c0706fb579>.

Mandeltort, L. with CTE team members, *Teaching Continuity*, UVA Center for Teaching Excellence, March 2020, teachingcontinuity.virginia.edu

Peer-reviewed publications

Mandeltort, L., Taggart, J., Williams, C., Bach, D., and Wheeler, L. "Nurturing Relationship-Rich Academic Environments," in preparation.

Chaudhury, S. R.; **Mandeltort, L.**; Mulnix, A.; Vandergrift, E.; Yates, J., Using Scientific Visualization to Enhance the Teaching and Learning of Core Concepts, in *Essentials of Teaching and Integrating Visual and Media Literacy -- Visualizing Learning*; Baylen, D. and D'Alba, A., Eds; Springer: New York, 2015; pp 185–202.

Mandeltort, L.; Chen, D.; Saidi, W. A.; Johnson, J. K.; Cole, M. W.; Yates, J. T., Jr., Experimental and Theoretical Comparison of Gas Desorption Energies on Metallic- and Semiconducting- Carbon Nanotubes. *J. Am. Chem. Soc.* 2013, 135, 7768–7776

Chen, D.; **Mandeltort, L.**; Saidi, W. A.; Yates, J. T., Jr.; Cole, M. W.; Johnson, J. K., Is there a Difference in Van Der Waals Interactions between Rare Gas Atoms Adsorbed on Metallic and Semiconducting Single-Walled Carbon Nanotubes? *Phys. Rev. Lett.* 2013, 110, 135503.

Mandeltort, L.; Yates, J. T., Jr., Rapid Atomic Li Surface Diffusion and Intercalation on Graphite: a Surface Science Study. *J. Phys. Chem. C* 2012, 116, 24962–2496.

Mandeltort, L.; Choudhury, P.; Johnson, J. K.; Yates, J. T., Jr., Methyl Radical Reactivity on the Basal Plane of Graphite. *J. Phys. Chem. C* 2012, 116, 18347–18357.

Mandeltort, L.; Choudhury, P.; Johnson, J. K.; Yates, J. T., Jr., Reaction of the Basal Plane of Graphite with the Methyl Radical. *J. Phys. Chem. Lett.* 2012, 3, 1680-1683.

Mandeltort, L.; Büttner, M.; Yates, J. T., Jr.; Choudhury, P.; Xiao, L.; Johnson, J. K., Carbon-Chlorine Bond Scission in Li-Doped Single-Walled Carbon Nanotubes: Reaction of CH₃Cl and Lithium. *J. Phys. Chem. C* 2010, 114, 17148-17158.

Büttner, M.; Xiao, L.; **Mandeltort, L.;** Edington, S.; Johnson, J. K.; Yates, J. T., Jr., Enhancement of Adsorption Inside Single-Walled Carbon Nanotubes: Li Doping Effect on n-Heptane van der Waals Bonding. *J. Phys. Chem. C* 2009, 113, 4829-4383.

Invited talks & workshops

<i>Course Design Week</i> (5 days series with E. Dickens), Chemistry Department, Arkansas State University, Jonesboro, AR	2021
<i>Assessment as Social Connection</i> , day-long virtual workshop all faculty, Universidad de Monterrey, Mexico	2020
<i>External grants and HHMI Inclusive Excellence: an institutional effort</i> , Furman University, Furman, SC	2019
<i>Effective Group Work</i> , Elon University, Elon, NC	2019
<i>Effective Classroom Collaboration</i> , Brandeis University, Waltham, MA	2019
<i>Chemical semantics and thinking in models</i> , Chemistry Department, Colby College, Waterville, ME	2019
<i>Engaging students as partners</i> , Center for Teaching and Learning, Colby College, Waterville, ME	2019
<i>More than grading machines: Assistants in teaching and learning</i> , Biggio Center, Auburn University	2016
<i>Longitudinal effects of active learning in general chemistry</i> , Dept. of Chem & Biochem, Auburn University	2016
<i>Using Canvas in Large Enrollment Courses</i> , Physics Department, Auburn University	2015
Facilitator for <i>Course (Re)design Seminar</i> , Biggio Center, Auburn University	2015
<i>Securing Breeden Grant Funding</i> , Biggio Center, Auburn University	2015
<i>Engaged and Active Student Learning (EASL) classroom</i> , Auburn University	2015
<i>Teaching Chemistry in EASL</i> , Auburn University	2015
<i>Breeden Grant Funding</i> , Biggio Center, Auburn University	2014

Peer reviewed presentations

L. Mandeltort, E. Dickens, J. Taggart. "Stakeholder Analysis for Department-Level Change Initiatives." Pitch session. International Consortium for Educational Developers (ICED) Annual Meeting, June, 2022

E. Dickens, **L. Mandeltort,** and J. Taggart, "Personalities, perspectives, and politics: the cultural work of curriculum redesign." Interactive recording. POD Annual Meeting, October, 2021.

L. Mandeltort. "SoTL as a lever for social change in the professoriate." Talk. International Society for Scholarship of Teaching and Learning (ISSOTL) Annual Meeting, Atlanta, GA, October 9-11, 2019.

L. Mandeltort. "Sage on a [smaller] stage: Didactic teaching at an elite liberal arts college." Poster. International Consortium for Educational Development (ICED) Conference, Atlanta, GA, 2018.

L. Mandeltort with A. Kolarkar. "Reforming Intro Physics & Chemistry with Interdepartmental Collaboration" Poster. National Forum on Active Learning Classrooms, University of Minnesota, Minneapolis, MN, 2015.

L. Mandeltort. "Direct perspective: Undergraduate participation in development." Poster. Southeastern Regional Meeting of the ACS (SERMACS), Atlanta, GA, 2013.

L. Mandeltort with J. Gorden. "Undergraduate participation in experiment development for introductory chemistry and outreach" Poster. Conversations in Celebration of Teaching, Auburn, AL, 2013.

L. Mandeltort, P. Choudhury, J. K. Johnson, J. T. Yates, Jr. "Methyl radical reactivity on the basal plane of graphite." Poster. 4th International Workshop of Advanced Materials, Ras Al-Khaimah, UAE, 2012.

L. Mandeltort, M. Büttner, J. T. Yates, Jr., "Breaking Molecular Chemical Bonds in Adsorbed Molecules on a Model Carbon Surface; Alkali-Induced Reactions on Single-Walled Nanotubes." International Symposium on Clusters and Nanostructures, Richmond, VA, 2011.

Institutional service

2021	Member, UVA Acts Managing Director Hiring Committee
2021 - present	Member, CTE Racial Equity & Justice Steering Committee
2021 - present	Member, UVA Engineering Morton Prize Selection Committee
2021 - present	Member, UVA Educational Innovation Award Selection Committee
2021	Member, School of Data Science Faculty Onboarding Working Group
2020 - present	Co-Chair, UVA Engineering Directors of Diversity, Equity, and Inclusion Committee
2020 - 2021	Member, UVA Graduate Teaching Awards Selection Committee
2020 - present	Member, UVA HHMI IE3 Leadership Team
2020 - 2021	Organizer, CTE Antiracist Pedagogy Reading Group
2020	Lead, In-person Lab Instruction Working Group (COVID-19 response)
2019	Designer and co-host, CBB Pedagogy Matters conference
2019	Member, Learning Community for STEM Scholars
2018	Member, Assistant Dean for First Generation Student Support Hiring Committee
2018	Chair, Bates Honors thesis committee: Salim Ourari (Physics)
2017	Participant, Bates W2 Assessment Project
2017	Member, Assistant Director of Writing at Bates Hiring Committee
2017 - 2019	Member, Bates Academic Resource Commons (ARC) Steering Committee
2017	Chair, Bates Honors thesis committees: Niccolo Bigagli and Aashu Jha (Physics)
2017	Advisor, Bates research thesis: Gift Kiti (Chemistry)
2016 - 2019	Member, Bates STEM Initiative (BSI) committee
2015	Judge, "This is Research" oral and poster presentations (Auburn)
2013 - 2016	Participant, TALONS (Talented Academic Leaders Outstanding National Scholars, Auburn)
2013	Presenter and educator, AU Summer Science Institute (Auburn)
2013	Demonstrator, AU Explore. Day of outreach for grades 5-8 (Auburn)
2009 - 2012	Demonstrator and member, UVA LEAD (Learning Through Experiments, Activities, and Demonstration). Outreach for K-5.

Other experience, membership, & external service

2020 - present	Reviewer, <i>To Improve the Academy</i>
2020 - present	Consulting Editor, <i>College Teaching</i>
2019 - present	Member, POD Special Interest Group DEI subcommittee
2018	Participant, Hackman Consulting Racial Equity and Social Justice Training
2018 - present	Reviewer, Professional and Organizational Development (POD) Network annual conference
2014	Reviewer, <i>Essentials of Teaching and Integrating Visual and Media Literacy -- Visualizing Learning</i>
2014	Textbook consultant, Pearson Higher Education
2013	Reviewer, <i>Chemical Reviews</i>
2013	Participant, Preparing Future Faculty (Auburn)
2013 - 2016	Member, AU AWIS (Association for Women in Science, Auburn)
2011 - 2012	Science adviser, The American Energy Society

Grants

2021	PI, POD DEI mini-grant, \$1,100 (UVA, funded). "Ashley and Sharon: Redirecting white women in educational development consultations."
2020 - 2021	Co-PI, Coalition for Life-Transformative Education, \$54,900 (UVA, funded). "Nurturing Sustainable, Relationship-Rich Academic Environments."
2018 - 2023	Co-author ² , HHMI Inclusive Excellence Grant, \$1,000,000 (Bates College, funded)
2016	Co-author ² , NSF S-STEM (Auburn, not funded)
2015	Co-author ² , HHMI Inclusive Excellence (Auburn, not funded)
2014 - 2015	PI, College of Science and Mathematics Instructional Innovation Grant, \$18,000 (Auburn, funded)
2014	PI, Breeden Instructional Improvement Grant, \$4,000 (Auburn, funded)
2013	PI, Breeden Instructional Improvement Grant, \$4,000 (Auburn, funded)

²Status as contingent faculty member precluded eligibility as documented co-PI