Trevor Hull

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PROFILE

- Ph.D. Chemist with experience in reviewing chemical properties of consumer tobacco products
- Contributed to PMTA application for a commercial electronic nicotine delivery system (ENDS)
- Strong familiarity with FDA guidances and other international regulatory documents
- Proven ability to interpret and verify analytical data, communicate results with stakeholders
- Proficient writer and editor of technical documentation, including SOPs and journal publications
- Expertise using Microsoft Excel, SharePoint, and Word; python, and C/C++ programming
- Versatile scientific experience: Tobacco and Pharmaceutical industries, materials science

EDUCATION

Columbia University – New York, New York
Ph.D., Chemistry, August 2019
M.A., Chemistry, February 2017

University of Utah – Salt Lake City, Utah
B.S., Chemistry, May 2013

RELEVANT EXPERIENCE

Reynolds American, Inc Winston-Salem, NC
Senior Scientist, Modern Oral Submissions 06/2021-present

- Manage analytical testing plan to prepare Modern Oral portfolio for regulatory submission
- Write chemistry, HPHC, and stability narrative for solid nicotine product PMTA submission
- Provide chemical information to cross-functional groups and key stakeholders

Senior Scientist, Product Integrity 04/2020-06/2021

- Provide chemical insight to e-liquid HPHC and stability narrative for ENDS PMTA application
- Approve analytical testing protocols for stability and HPHC evaluation of aerosols and e-liquids
- Collaborate with stakeholders to provide e-liquid composition information and toxicological profile upon request
- Maintain electronic tools to quickly find regulatory information on specific chemical substances
- Draft manuscript detailing novel physical measurement techniques of ENDS devices

Edit911 Remote 10/2019-04/2020
Ph.D. Editor

- Edit and format scientific manuscripts for publication in academic journals, books, and theses
- Work with customers to improve grammar, legibility, and clarity of scientific writing

Columbia University New York, New York 08/2014-08/2019
Graduate Research Assistant

- Write, edit, prepare, and gather preliminary data for grant applicants with PhD advisor
- Create and collaborate on original materials science and chemistry papers for publication
- Assisted advisor in peer-review by critiquing scientific reports and writing comments for authors
- Developed required technical documentation and standard operating procedures (SOPs) for analytical instrumentation and data processing programs

University of Utah Salt Lake City, Utah 2012-2014
Undergraduate Researcher

- Monitored CdSe nanocrystal reaction kinetics using *in-situ* UV-Vis absorbance spectroscopy
- Supervised and graded organic chemistry labs and lectures as Lab Teaching Assistant

Watson Pharmaceuticals (Teva) Salt Lake City, Utah 2011-2012
Intern, Analytical R&D Research Stability

- Performed HPLC and UPLC timepoint assays to study stability of pharmaceutical components
- Maintained a Good Manufacturing Practices compliant/FDA regulated lab notebook
- Safely prepare and track analytical standards of federally regulated active ingredients

AWARDS & SELECTED AFFILIATIONS

Best Poster Award, Quantum Dot/Phosphor Global Summit, 2019
Jack Miller Award for Excellence in Teaching by a Graduate Student, 2016
University of Utah Honors at Entrance full-tuition scholarship, 2010
Girls Science Day at Columbia: Oversaw age-appropriate scientific activities for middle-school students

SELECTED PUBLICATIONS

- Brauser, E. M. †; **Hull, T. D.** †; McLennan, J. D.; Siy, J. T.; Bartl, M. H. "Experimental Evaluation of Kinetic and Thermodynamic Reaction Parameters of Colloidal Nanocrystals." *Chemistry of Materials* 2016, 28 (11), 3831–3838. (†authors contributed equally)
- Guo, Y.; Yaffe, O.; **Hull, T. D.**; Owen, J. S.; Reichman, D. R.; Brus, L. E. "Dynamic Emission Stokes Shift and Liquid-like Dielectric Solvation of Band Edge Carriers in Lead-Halide Perovskites." *Nature Communications* 2019, 10 (1), 1175.
- Glaser, T.; Müller, C.; Sendner, M.; Krekeler, C.; Semonin, O. E.; **Hull, T. D.**; Yaffe, O.; Owen, J. S.; Kowalsky, W.; Pucci, A.; et al. "Infrared Spectroscopic Study of Vibrational Modes in Methylammonium Lead Halide Perovskites." *J. Phys. Chem. Lett.* 2015, 6 (15), 2913–2918.
- Semonin, O. E.; Elbaz, G. A.; Straus, D. B.; **Hull, T. D.**; Paley, D. W.; Van der Zande, A. M.; Hone, J. C.; Kymissis, I.; Kagan, C. R.; Roy, X.; et al. "Limits of Carrier Diffusion in N-Type and P-Type $CH_3NH_3PbI_3$ Perovskite Single Crystals." *J. Phys. Chem. Lett.* 2016, 7 (17), 3510–3518.
- Elbaz, G. A.; Straus, D. B.; Semonin, O. E.; **Hull, T. D.**; Paley, D. W.; Kim, P.; Owen, J. S.; Kagan, C. R.; Roy, X. "Unbalanced Hole and Electron Diffusion in Lead Bromide Perovskites." *Nano letters* 2017, 17 (3), 1727–1732.