

# Cameron Lowry

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## Education

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- 8/2024–5/2029 PhD in Pharmaceutical Sciences  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA  
GPA: 3.96/4.00
- 8/2012–5/2016 BS in Chemical Engineering  
College of Engineering  
Virginia Tech  
Blacksburg, VA, USA  
*cum laude*, Minor in Chemistry, GPA: 3.45/4.00

## Professional Appointments

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- 1/2025–Present Research Assistant  
PI: Arjun Krishnan, PhD  
Department of Biomedical Informatics  
School of Medicine  
University of Colorado Anschutz  
Aurora, CO, USA
- 8/2024–1/2025 Research Assistant  
PI: Christina Aquilante, PharmD  
Department of Pharmaceutical Sciences  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 5/2023–6/2024 Scientist  
Department of Drug Product Development  
GSK plc  
Rockville, MD, USA
- 12/2020–5/2023 Associate Scientist  
Department of Drug Product Development  
GSK plc  
Rockville, MD, USA

- 12/2017–4/2020 Associate Scientist  
Department of Vaccine Process Development  
Merck & Co., Inc.  
West Point, PA, USA
- 7/2016–12/2017 Downstream Scientist  
Eurofins Lancaster Laboratories Professional Scientific Services, LLC  
West Point, PA, USA
- 2/2016–5/2016 Project Intern  
Universal Fibers, Inc.  
Bristol, VA, USA
- 2/2016–4/2016 Undergraduate Research Assistant  
PI: Michael Flessner, PhD  
Department of Plant Pathology, Physiology, and Weed Science  
College of Agriculture and Life Sciences  
Virginia Tech  
Blacksburg, VA, USA
- 11/2014–5/2015 Laboratory Aide  
Virginia Tech Soil Testing Laboratory  
Blacksburg, VA, USA

## Publications

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### Acknowledgements

1. Thelen, J. L., Leite, W., Urban, V. S., O'Neill, H. M., Grishaev, A. V., Curtis, J. E., Krueger, S., & Castellanos, M. M. (2024). *Morphological Characterization of Self-Amplifying mRNA Lipid Nanoparticles*. ACS Nano, 18(2), 1464-1476. <https://doi.org/10.1021/acsnano.3c08014>

## Conferences

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### Posters

1. Lowry, C., Farrell, C., McFarlane, N., & Wen, E. (2019). *Texture, particle, and rheometric analysis of precipitated polysaccharide*. American Chemical Society, Spring 2019 National Meeting, Orlando, FL, USA.

## Awards

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- 6/2012 Baltimore Alumni Chapter Scholarship  
Virginia Tech Alumni Association, Baltimore Chapter  
Baltimore, MD, USA

## Community Outreach

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- 11/2025 Panelist, Career Exploration Panel for Visiting Elementary School Students  
Hallett Academy hosted by University of Colorado Anschutz  
Aurora, CO, USA
- 10/2025 Panelist, Career Exploration Panel for Visiting High School Students  
Adams City High School hosted by University of Colorado Anschutz  
Aurora, CO, USA

## Departmental Service

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- 9/2025–Present Pharmaceutical Sciences PhD Student Representative 2025-2026  
Department of Pharmaceutical Sciences  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA

## Teaching Assistant Experiences

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### Courses

- 1/2025–5/2025 PHRD/PRDZ 5965: Patient-Centered Communication  
Pharmacy Doctorate (PHRD/PRDZ) Course  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 8/2024–12/2024 PHRD 5925: Pharmaceutics (Lab)  
Pharmacy Doctorate (PHRD) Course  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 8/2024–12/2024 PHRD 6015: Clinical Pharmacokinetics  
Pharmacy Doctorate (PHRD) Course  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 8/2024–12/2024 PHRD 7085: Pharmacotherapy 6  
Pharmacy Doctorate (PHRD) Course  
University of Colorado Anschutz  
Aurora, CO, USA

### Workshops

- 6/2025 Multi-Omics and NETwork Analysis Summer Workshop (MONET)  
University of Colorado Anschutz  
Aurora, CO, USA

1/2025–5/2025 Dean's Leadership Convocation  
 Pharmacy Doctorate Seminar Series  
 Skaggs School of Pharmacy and Pharmaceutical Sciences  
 University of Colorado Anschutz  
 Aurora, CO, USA

## Selected Coursework

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7/2015–8/2015 28123: Laboratory in Chemical/Biochemical Engineering  
 28124: Summer Course in Chemical Process and Plant Design  
 Technical University of Denmark  
 Kongens Lyngby, Denmark

9/2014–12/2014 CHE 4994: Undergraduate Research  
 Chemical Engineering (CHE) Course  
 PI: William Ducker, PhD  
 Department of Chemical Engineering  
 College of Engineering  
 Virginia Tech  
 Blacksburg, VA, USA

## Professional Development

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### Professional Organizations

9/2025–Present Member  
 Statistical Genomics Working Group, University of Colorado Anschutz

11/2024–Present Trainee Member  
 Colorado Clinical and Translational Sciences Institute

9/2024–Present Staff Member  
 Colorado Center for Personalized Medicine

9/2024–Present Member  
 R-Ladies Aurora

### In-Person Meeting Participation

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11/2025 High Content Screening to Identify New Therapies for Hypoplastic Left Heart Syndrome  
 Thesis Defense, Pharmaceutical Sciences MS Program, Drug Discovery Track  
 Skaggs School of Pharmacy and Pharmaceutical Sciences  
 University of Colorado Anschutz  
 Aurora, CO, USA

- 11/2025 The Role of Hybrid Insulin Peptides in the Pathogenesis of Type 1 Diabetes  
Thesis Defense, Pharmaceutical Sciences PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 10/2025 Perspectives of Academic Systems in Providing Neurological Care  
MJH Life Sciences Multimedia Medical LLC  
Aurora, CO, USA
- 10/2025 The Journey of a CAR-T: A Case Study in Cell & Gene Therapy Drug Development  
Innovation & Entrepreneurship Seminar  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 9/2025 Transcriptomics series: R Stats/ Differential Expression Analysis  
R-Ladies Aurora  
Aurora, CO, USA
- 9/2025 Exploring Mechanisms of Fibrotic Gene Reprogramming in Toxicant-Induced  
Liver Injury  
Thesis Defense, Toxicology PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 9/2025 Colorado Center for Personalized Medicine Annual Retreat  
University of Colorado Anschutz  
Denver, CO, USA
- 8/2025 Discovery and Pre-Clinical Development of CHD1L Inhibitors for the Treatment  
of Cancer  
Thesis Defense, Toxicology PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 8/2025 Skaggs School of Pharmacy and Pharmaceutical Sciences Research Retreat  
University of Colorado Anschutz  
Aurora, CO, USA
- 8/2025 University of Colorado-Rocky Mountain Advanced Computing Consortium  
(CU-RMACC) Artificial Intelligence (AI) Workshop  
University of Colorado Boulder  
Boulder, CO, USA

- 7/2025 AI Discovery Lab: So Many AI Training Courses, So Little Time: How to Navigate the Noise and Find the Right AI Course for You  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 7/2025 Mechanisms of Action Underlying Ocular Injuries Post-Sulfur Mustard And -Lewisite Exposure, And Dexamethasone as a Treatment  
Thesis Defense, Toxicology PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 6/2025 AI Discovery Lab: Leveraging AI in Scientific Writing, Effectively and Ethically  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 6/2025 Transcriptomics series: Single-cell analysis with Seurat  
R-Ladies Aurora  
Aurora, CO, USA
- 6/2025 Targeting Bcl2-mediated Fibroblast Persistence Attenuates Silica-induced Pulmonary Fibrosis Progression  
Thesis Defense, Toxicology PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 5/2025 Systems biology-enabled advancements in personalized medicine and global health  
Bytes to Bedside Seminar  
Department of Biomedical Informatics  
University of Colorado Anschutz  
Aurora, CO, USA
- 5/2025 Rotation Talks for Toxicology PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 5/2025 Rotation Talks for Pharmaceutical Sciences PhD Program\*\*  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 4/2025 Transcriptomics Series: From Raw Data (fastq) to Counts  
R-Ladies Aurora  
Aurora, CO, USA

- 4/2025 Computational Bioscience PhD Program Retreat  
University of Colorado Anschutz  
Golden, CO, USA
- 4/2025 Understanding and Preventing Variable Complement Responses Toward Nanoparticles  
Thesis Defense, Pharmaceutical Sciences PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 4/2025 Monthly social & networking: Co-working on R projects  
R-Ladies Aurora  
Aurora, CO, USA
- 4/2025 2025 Symposium on Nanomedicine and Nanosafety  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 4/2025 Characterization of Sirolimus Metabolites and Investigation of their Interactions with the mTOR Pathway  
Thesis Defense, Toxicology PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 4/2025 Breaking into Academia: Understanding Faculty Careers  
Career Development Office  
University of Colorado Anschutz  
Aurora, CO, USA
- 4/2025 Shark Tank event for the collaborative research challenge grants  
Associate Dean of Research and Graduate Studies  
Department of Pharmaceutical Sciences Collaborative Grant Task Force  
University of Colorado Anschutz  
Aurora, CO, USA
- 4/2025 A Comparative Proteomic Analysis of Murine and Human Alcohol-Associated Liver Disease  
Thesis Defense, Toxicology PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 3/2025 Alpine HPC Best Practices  
Bytes to Bedside Seminar  
Department of Biomedical Informatics  
University of Colorado Anschutz  
Aurora, CO, USA

- 3/2025 Development of novel small molecule AMP-activated protein kinase inhibitors  
Thesis Defense, Pharmaceutical Sciences PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 3/2025 Back to Basics: Intro to R and Data Wrangling with Transcriptomics  
R-Ladies Aurora  
Aurora, CO, USA
- 3/2025 One notebook to rule them all: Maintaining a single, unambiguous, authoritative representation of knowledge  
Computational Bioscience PhD Program Seminar  
University of Colorado Anschutz  
Aurora, CO, USA
- 2/2025 Pharmacology and Experimental Therapeutics at Bud & Mary's, LLC  
Innovation & Entrepreneurship Seminar  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 2/2025 Python in R  
R-Ladies Aurora  
Aurora, CO, USA
- 1/2025 Investigating Opportunities to Improve Syphilis Rates and Patient Outcomes in Colorado  
Thesis Defense, Pharmaceutical Outcomes Research PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 1/2025 Rotation Talks for Toxicology PhD Program  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 12/2024 Rotation Talks for Pharmaceutical Sciences PhD Program\*\*  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz  
Aurora, CO, USA
- 11/2024 Holiday special | Presenting your work to non-scientists  
R-Ladies Aurora  
Aurora, CO, USA
- 10/2024 R Package Development  
R-Ladies Aurora  
Aurora, CO, USA



- 10/2024 Colorado Center for Personalized Medicine Annual Retreat  
University of Colorado Anschutz  
Breckenridge, CO, USA
- 10/2024 Dataviz 2.0 | publication-ready plots & tables  
R-Ladies Aurora  
Aurora, CO, USA
- 10/2024 Intro to modular programming w/ R functions  
R-Ladies Aurora  
Aurora, CO, USA
- 9/2024 Intro to Datviz  
R-Ladies Aurora  
Aurora, CO, USA
- 8/2024 Department of Biomedical Informatics Annual Retreat  
University of Colorado Anschutz  
Denver, CO, USA
- 8/2024 Skaggs School of Pharmacy and Pharmaceutical Sciences Research Retreat  
University of Colorado Anschutz  
Keystone, CO, USA
- 2/2023 Light Scattering University & Eclipse (AF4/Dualtec) Training  
Wyatt Technology Corporation  
Santa Barbara, CA, USA
- 6/2022 Freedom EVOware Standard Training  
Tecan Group Ltd.  
Morrisville, NC, USA

### **Online Meeting Participation**

[\*\* Presenter]

- 12/2025 Using NVIDIA GPUs with Python (A Workshop)  
NVIDIA Corporation
- 11/2025 Research Computing Workflow Workbench: LLMs  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder
- 11/2025 Bayesian Multi-Omics Disease Subtyping with Clinical Outcome Guidance in the Context of Multi-Facet Cluster Structure  
American Statistical Association, Section on Statistics in Genomics and Genetics
- 11/2025 Evaluating Reference-Mixture Matching in Cell Type Deconvolution with Single-Cell RNA-Seq References  
Statistical Genomics Working Group  
University of Colorado Anschutz
- 10/2025 Psychedelic Medicine and the Future of Mental Health Care  
Unbound Medicine, Inc.

- 10/2025 Integrative Network Analysis of mRNA Expression and DNA Methylation  
Statistical Genomics Working Group  
University of Colorado Anschutz
- 9/2025–11/2025 Fellowship & Career Development Proposal Workshop  
Department of Biomedical Informatics  
University of Colorado Anschutz
- 9/2025 The Evolution of Retail Medicine & the Latest Startups in the Space  
Innovation & Entrepreneurship Seminar  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz
- 9/2025 Spatial and Functional Analytic Approaches to Single-Cell Imaging Data  
Statistical Genomics Working Group  
University of Colorado Anschutz
- 4/2025 The effects of Cannabis on male fertility and as a potential method of birth control  
Thesis Defense, Pharmaceutical Sciences MS Program, Cannabis Science and  
Medicine Track  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of Colorado Anschutz
- 4/2025 Introduction to GPU Acceleration on Alpine (an RC Primer)  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder
- 3/2025 Research Storage Simplified (an RC Quick Byte)  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder
- 3/2025 Introduction to the Commercial Cloud (an RC Primer)  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder
- 3/2025 Incredibly Easy Parallelization: High Throughput Computing (an RC Primer)  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder
- 3/2025 Maximizing Efficiency Using Parallelization (an RC Quick Byte)  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder
- 3/2025 Using Linaro DDT on Alpine to Debug Parallel Code (an RC Primer)  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder

- 2/2025 An Introduction to Debugging (RC Short Course)  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder
- 2/2025 Git & GitHub In-depth (a Short Course)  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder
- 2/2025 Installing Software on Alpine with Conda and Mamba (an RC Primer)  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder
- 1/2025 Scheduling Jobs on a SuperComputer: RC Short Course  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder
- 1/2025 Working with Linux on HPC  
University of Colorado Research Computing  
Office of Information Technology  
University of Colorado Boulder
- 11/2024 Pharmacogenomics (PGx) Journal Club\*\*  
Colorado Center for Personalized Medicine
- 10/2024 Pharmacogenomics (PGx) Journal Club  
Colorado Center for Personalized Medicine
- 10/2024 Applications of Genetic Ancestry in the Colorado Center for Personalized  
Medicine  
Colorado Center for Personalized Medicine
- 9/2024 Pharmacogenomics (PGx) Journal Club  
Colorado Center for Personalized Medicine
- 8/2024 CITI Health Information Privacy and Security for Clinical Investigators  
CITI Program
- 8/2024 Group 1 Biomedical Investigators  
CITI Program
- 12/2021 Liquid Filling  
The Packaging School LLC