

Cameron Lowry

Email: cameron.lowry@cuanschutz.edu

Personal Website: cameronlowry.com

GitHub: github.com/lowrycam

LinkedIn: linkedin.com/in/lowrycam

Google Scholar: scholar.google.com/citations?user=9w7i7oAAAAAJ

Education

- 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

- 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

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

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

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

Community Outreach

- 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

- 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

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

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

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

[** Presenter]

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 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