Cameron Lowry

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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 GPA: 3.96/4.00
8/2012–5/2016	BS in Chemical Engineering College of Engineering Virginia Tech Blacksburg, VA *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
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
5/2023–6/2024	Scientist Department of Drug Product Development GSK plc Rockville, MD
12/2020–5/2023	Associate Scientist Department of Drug Product Development GSK plc Rockville, MD

12/2017–4/2020   Associate Scientist
Department of Vaccine Process Development
Merck & Co., Inc.
West Point, PA

7/2016–12/2017   Downstream Scientist
Eurofins Lancaster Laboratories Professional Scientific Services, LLC
West Point, PA

2/2016–5/2016   Project Intern
Universal Fibers, Inc.
Bristol, VA

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

11/2014–5/2015   Laboratory Aide
Virginia Tech Soil Testing Laboratory
Blacksburg, VA

Publications

Acknowledgements

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

Conferences

National

3/2019–4/2019   American Chemical Society Spring National Meeting & Exposition
Orlando, FL
Poster – Texture, particle, and rheometric analysis of precipitated polysaccharide

Awards

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

Community Outreach

11/2025   Panelist
Career Exploration Panel for Visiting Elementary School Students
Hallett Academy hosted by University of Colorado Anschutz
Aurora, CO

10/2025   Panelist
Career Exploration Panel for Visiting High School Students
Adams City High School hosted by University of Colorado Anschutz
Aurora, CO

Program Service

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

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

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

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

8/2024–12/2024   PHRD 7085: Pharmacotherapy 6
Pharmacy Doctorate (PHRD) Course
University of Colorado Anschutz
Aurora, CO

Workshops

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

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

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 Hypolastic 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

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

10/2025   Perspectives of Academic Systems in Providing Neurological Care
          MJH Life Sciences Multimedia Medical LLC
          Aurora, CO

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

 9/2025   Transcriptomics series: R Stats/ Differential Expression Analysis
          R-Ladies Aurora
          Aurora, CO

 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

 9/2025   Colorado Center for Personalized Medicine Annual Retreat
          University of Colorado Anschutz
          Denver, CO

 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

8/2025   Skaggs School of Pharmacy and Pharmaceutical Sciences Research Retreat
University of Colorado Anschutz
Aurora, CO

8/2025   University of Colorado-Rocky Mountain Advanced Computing Consortium (CU-RMACC) Artificial Intelligence (AI) Workshop
University of Colorado Boulder
Boulder, CO

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

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

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

6/2025   Transcriptomics series: Single-cell analysis with Seurat
R-Ladies Aurora
Aurora, CO

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

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

5/2025   Rotation Talks for Toxicology PhD Program
Skaggs School of Pharmacy and Pharmaceutical Sciences
University of Colorado Anschutz
Aurora, CO

5/2025   Rotation Talks for Pharmaceutical Sciences PhD Program**
          Skaggs School of Pharmacy and Pharmaceutical Sciences
          University of Colorado Anschutz
          Aurora, CO

4/2025   Transcriptomics Series: From Raw Data (fastq) to Counts
          R-Ladies Aurora
          Aurora, CO

4/2025   Computational Bioscience PhD Program Retreat
          University of Colorado Anschutz
          Golden, CO

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

4/2025   Monthly social & networking: Co-working on R projects
          R-Ladies Aurora
          Aurora, CO

4/2025   Symposium on Nanomedicine and Nanosafety
          Skaggs School of Pharmacy and Pharmaceutical Sciences
          University of Colorado Anschutz
          Aurora, CO

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

4/2025   Breaking into Academia: Understanding Faculty Careers
          Career Development Office
          University of Colorado Anschutz
          Aurora, CO

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

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

3/2025   Alpine HPC Best Practices
Bytes to Bedside Seminar
Department of Biomedical Informatics
University of Colorado Anschutz
Aurora, CO

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

3/2025   Back to Basics: Intro to R and Data Wrangling with Transcriptomics
R-Ladies Aurora
Aurora, CO

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

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

2/2025   Python in R | Intro to {reticulate}
R-Ladies Aurora
Aurora, CO

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

1/2025   Rotation Talks for Toxicology PhD Program
Skaggs School of Pharmacy and Pharmaceutical Sciences
University of Colorado Anschutz
Aurora, CO

12/2024   Rotation Talks for Pharmaceutical Sciences PhD Program**
Skaggs School of Pharmacy and Pharmaceutical Sciences
University of Colorado Anschutz
Aurora, CO

11/2024   Holiday special | Presenting your work to non-scientists
R-Ladies Aurora
Aurora, CO

10/2024   Intro to R Package Development
R-Ladies Aurora
Aurora, CO

10/2024   Colorado Center for Personalized Medicine Annual Retreat
University of Colorado Anschutz
Breckenridge, CO

10/2024   Dataviz 2.0 | publication-ready plots & tables
R-Ladies Aurora
Aurora, CO

10/2024   Intro to modular programming w/ R functions
R-Ladies Aurora
Aurora, CO

9/2024   Intro to Data Visualization w/ R
R-Ladies Aurora
Aurora, CO

8/2024   Department of Biomedical Informatics Annual Retreat
University of Colorado Anschutz
Denver, CO

8/2024   Skaggs School of Pharmacy and Pharmaceutical Sciences Research Retreat
University of Colorado Anschutz
Keystone, CO

2/2023   Light Scattering University & Eclipse (AF4/Dualtec) Training
Wyatt Technology Corporation
Santa Barbara, CA

6/2022   Freedom EVOware Standard Training
Tecan Group Ltd.
Morrisville, NC

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 Journal Club**
Colorado Center for Personalized Medicine

10/2024   Pharmacogenomics 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