

EDUCATION

- PhD, *Computer Science* – University of Nevada, Las Vegas Expected 2031
- MS, *Biological Sciences* – University of Nevada, Las Vegas May 2022
- BS, *Biological Sciences* – University of Nevada, Las Vegas May 2020
- MBA, *Business Administration* – University of Nevada, Reno Dec 2013
- BS, *Computer Science* – University of California, Los Angeles June 2010

RELEVANT EXPERIENCE

- Research Assistant – University of Nevada, Las Vegas June 2023 – Present
- Graduate Teaching Assistant – University of Nevada, Las Vegas Aug 2020 – May 2022
- Part-time Instructor – University of Nevada, Las Vegas Jan 2020 – July 2020
- Software Engineer – International Game Technology, Reno, Nevada June 2010 – May 2014

PUBLICATIONS

- Chatterjee S, *et al.*, **Van R**, *et al.*, Guha P. Phytic acid (InsP₆) activates HDAC3 epigenetic axis to maintain intestinal barrier function. 2026 Feb 9. *Nature Communications*. doi:10.1038/s41467-026-68994-0.
- Barth D, **Van R**, Cardwell J, Han M. Supervised learning of enhancer-promoter specificity based on genome-wide perturbation studies highlights areas for improvement in learning. 2024 Jun 3. *Bioinformatics*. doi: 10.1093/bioinformatics/btae367.
- **Van R**, Alvarez D, Mize T, Gannavarapu S, Chintham L, Nasoz F, Han M. A comparison of RNA-Seq data preprocessing pipelines for transcriptomic predictions across independent studies. 2024 May 8. *BMC Bioinformatics*. doi:10.1186/s12859-024-05801-x.
- **Van R**, *et al.*, Tsourkas P. Complete Genome Sequences of Cluster P1 and Cluster C1 *Mycobacterium smegmatis* Phages Jung and Ronan. 2020 Aug 20. *Microbiology Resource Announcement*. doi:10.1128/mra.00678-20.

POSTER PRESENTATIONS

- Paul S, *et al.*, **Van R**, Han M. Investigating the impact of genome structural rearrangements and somatic variants on enhancer-promoter interactions and gene expression in K562 vs GM12878 cell lines. 2026 Jul 12-16. Contributor for poster session. Intelligent Systems for Molecular Biology, Washington, D.C.
- **Van R**, Han M, *et al.*, Mitra R. Lineage-specific survival vs proliferative enzalutamide resistance states as potential drivers of prostate cancer disparities. 2026 Apr 17-22. Contributor for poster session. American Association for Cancer Research Annual Meeting, San Diego, California.
- **Van R**, *et al.*, Nasoz F, Han M. A comparison of RNA-Seq data preprocessing pipelines for transcriptomic predictions across independent studies. 2024 Oct 22. Presenter for virtual poster session. Asian Student Council Symposium, Okinawa, Japan.
- **Van R**, Bugayong A, Han M, Caberoy N. Global transcriptional profile of tubby in the mouse retina. 2022 Apr 2. 2nd Place Winner for poster session P2. UNLV Graduate & Professional Student Association Annual Research Forum, Las Vegas, Nevada.
- **Van R**, Carodine R, Rodriguez D. A look at dilated cardiomyopathy. 2019 Nov 22. Presenter for poster session. UNLV Undergraduate Research Symposium, Las Vegas, Nevada.

- Mize T, **Van R**, *et al.*, Nasoz F, and Han M. Influence of batch effect on supervised learning of RNA-Seq data: A case study on prediction of tissue-of-origin. 2019 Oct 7-9. Contributor for poster session. NIH IDeA Western Regional Conference, Las Vegas, Nevada.

TEACHING EXPERIENCE

- Lab Instructor
 - BIOL468L – Histology Lab, 2 sections Spring 2022
 - BIOL347 – Human Anatomy Lab, 2 sections Fall 2021
 - BIOL468L – Histology Lab, 2 sections Spring 2021
 - BIOL347 – Human Anatomy Lab, 2 sections Fall 2020
 - BIOL189L – Principles of Life Sciences Lab, 2 sections Summer 2020
 - BIOL189L – Principles of Life Sciences Lab, 2 sections Spring 2020
- Academic Grader
 - BIOL348 – Introduction to Human Anatomy Spring 2020
 - BIOL341 – Principles of Ecology Spring 2020
- Undergraduate Teaching Assistant
 - BIOL468 – Histology Lab Fall 2019 – Spring 2020
 - BIOL347 – Human Anatomy Lab Spring 2019 – Fall 2019
 - BIOL197L – Principles of Modern Biology II Lab Fall 2018

LEADERSHIP AND SERVICE

- Summer Code Camp – University of Nevada, Las Vegas June 2023
 - Taught middle schoolers how to code with a block-based coding platform to make games
- Grad Rebel Advantage Program – University of Nevada, Las Vegas Fall 2018 – Spring 2019
 - Presented at the closing event as a 3-minute presentation winner of mentee cohort
- Fieldwork Experience – University of Nevada, Las Vegas Fall 2017
 - Collected and documented plant specimens from the Sheep Mountain Range once a week
- Canine Companion – The Animal Foundation, Las Vegas, Nevada Fall 2016 – Spring 2017
 - Walked, socialized, and provided enrichment for rescue dogs for three hours every week