

Gemma Martin

Pronouns: they/them/theirs

Address: 4720 East 8th Ave #12 Denver, CO 80220

Email: gem.martin08@gmail.com

EDUCATION:

Ph.D. Student, University of Colorado Anschutz 2021-Present
Aurora, Colorado

B.S. Biology, Shenandoah University 2015-2018
Winchester, Virginia

Additional education:

Graduate course work – 18 credits, George Mason University 2018-2019
Manassas, Virginia

RESEARCH:

Post Baccalaureate Research Fellow June 2020–June 2021
National Institutes of Health – National Institute of Dental Craniofacial

Research

Bethesda, MD

- Collaborate with other scientists to develop new skills including: qPCR, RNA extraction, salivary gland dissections, immunohistochemistry, and confocal microscopy.
- Present findings within a group of peers for evaluation and feedback.
- Standardize salivary gland myoepithelial cell culture protocol.

Post Baccalaureate Research Fellow June 2019–June 2020
NIH – National Institute on Deafness and Other Communication Disorders

Bethesda, MD

- Analyzed genetic conservation data using (DNASTar) bioinformatics software
- Collaborated with other scientists to develop and learn new skills including: inner ear dissections, PCR/Sequencing, cloning, cell culture, and confocal microscopy.
- Presented findings within a group of peers for evaluation and feedback.

Graduate Student August 2018–May 2019

George Mason University – School of Systems Biology

Manassas, VA

- Collaborated with other scientists to develop and learn new skills.
- including: PCR/Genotyping, Mouse handling, Zebrafish handling, and PRISM software.

Research Assistant

Summer 2017

Shenandoah University – Biology Dept

Winchester, VA

- Developed new skills including: western blotting, TCA protein extraction, ImageJ software, preparing buffers, and pouring gels.
- This position was funded by a summer fellowship from the Virginia Foundation of Independent Colleges.

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WORK:

Student Athlete Tutor

June 2019 – June 2020

George Mason University – Athletics Dept

Fairfax, VA

- Reviewed Anatomy & Physiology (BIO125) Course materials.
- Collaborated with students individually to improve study habits and note taking.

Student Employee

Aug 2016 – May 2018

Shenandoah University – Biology Dept

Winchester, VA

- Assisted Biology professors in administrative tasks.

Student Tutor

Aug 2016 – May 2018

Shenandoah University – Center for Academic Enrichment

Winchester, VA

- Reviewed materials for Anatomy and Physiology 1&2 (BIO231/232), and General Biology 1 (BIO121).
- Collaborated with students in both individual and group settings to help improve study habits and note taking.

Work Study

Aug 2015 – May 2016

Shenandoah University – Department of Intercultural Programs

Winchester, VA

- Planned and implemented programs that spread diversity (sexual orientation, religion, and ethnicity) and cultural awareness on the campus of Shenandoah University.
- Assisted the Director with administrative tasks.

LEADERSHIP/VOLUNTEER:

TrevorChat Crisis Counselor

Oct 2020-Present

Trevor Project

- Respond to chat/text requests for LGBTQIA+ youth in crisis.

Mentor

Sept 2020-Present

Shenandoah University College of Arts and Sciences

- Provide guidance and support for current undergraduate students at Shenandoah University.

Panelist

NIEHS Diversity Speaker Series

June 2021

What Brings Us Here – Experiences and Perspectives Across NIH

Mentor

Sept 2020–May 2021

College Bound

- Provide guidance and support for high school students in DC Public Schools in preparation for college. Outstanding Mentor – Sherwood Site.

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SafeZone Facilitator

Jan 2020–June 2021

NIH Office of Equity Diversity and Inclusion

- Co-Lead LGBTQ+ awareness and allyship training workshop.

Sexual and Gender Minority Engagement Committee

Sept 2019–June 2021

NIH Office of Equity Diversity and Inclusion

- Discuss and plan active improvements to SGM policies across the NIH.

Welcome a Scientist into Your Home

Summer 2020

NIH Catalyst

- Mentored children of a NIH employees virtually via personalized educational presentations.

NIDCD Anti-Harassment Committee

Sept 2019-Jun 2020

- Participated in updating anti-harassment policies for the NIDCD.

Faculty Search Committee

Spring 2017

Shenandoah University Biology Department

- Participated in the hiring process of new Anatomy & Physiology faculty.

PRESENTATIONS:

Postbac Poster Day: poster

April 2021

NIDCR: Neurotrophin Signaling Enhances Salivary Gland Myoepithelial Cell Differentiation

Outstanding Poster Award

NIDCR Trainee Retreat: 3-minute talk

April 2021

Neurotrophin Signaling Enhances Salivary Gland Myoepithelial Cell Differentiation

NIDCD Annual Retreat: 3-minute talk

May 2020

Identification and Characterization of Novel *Slc26a4* Isoforms

NIDCD Molecular Genetics Journal Club

Feb 2020

Exon-Mediated Activation of Transcription Starts (Fiszbein et al., 2019)

PUBLICATIONS:

Neurotrophins in Non-Neuronal Tissue. Review. Mary Pasquale†, James Ball†, Carlos Villapudua†, **Gemma Martin†**, Matthew P. Hoffman and Alejandro M. Chibly* (In preparation for submission)

Mechanisms of radiation-induced salivary gland dysfunction. Alejandro M. Chibly¹, Mary Pasquale¹, **Gemma, Martin¹**, Isabelle Lombaert^{1,2}, Mousa Ghannam¹, Colleen Simpson³, David Goldstein³, Fei-Fei Liu³, and Matthew P. Hoffman^{1*} (in preparation for submission)

What are Gender Pronouns and Why Do They Matter? (2020)

Office of Equity Diversity and Inclusion Blog – NIH/HHS