

# Gemma Martin

Pronouns: they/them/theirs

## 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.

## WORK:

**Student Athlete Tutor** June 2019 – June 2020  
**George Mason University – Athletics Dept**

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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.

### **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.

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## 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. Chibly<sup>1</sup>, Mary Pasquale<sup>1</sup>, **Gemma, Martin<sup>1</sup>**, Isabelle Lombaert<sup>1,2</sup>, Mousa Ghannam<sup>1</sup>, Colleen Simpson<sup>3</sup>, David Goldstein<sup>3</sup>, Fei-Fei Liu<sup>3</sup>, and Matthew P. Hoffman<sup>1\*</sup> (in preparation for submission)

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

Office of Equity Diversity and Inclusion Blog – NIH/HHS