

**Tyler J. Butsch, Ph.D.**  
Email: [butsch1600@gmail.com](mailto:butsch1600@gmail.com)  
Phone: 859-250-6333

## **SUMMARY**

Innovative Science Communicator with 5+ years of experience developing multimodal scientific deliverables, collaborating with internal and external teams, and project management to meet tight deadlines.

## **WORK EXPERIENCE**

Research Assistant II, Michigan State University 2025-Present

- Analyzed clinical and pre-clinical data to author two manuscripts on hepatobiliary disease
- Conducted literature reviews to rapidly build an understanding of liver disease and current therapeutics
- Collaborated with mass spectrometry experts to develop high-quality experiments with human cells

Medical Writer I Intern, Precision AQ 2025

- Analyzed clinical trial data to develop slide decks, posters, and brief communications to summarize the most recent findings for patients and practitioners
- Worked cross-functionally with creative and scientific teams to design promotional graphics
- Presented relevant product and disease state information to team members to gather feedback

Science Teacher, Lansing Technical High School 2024-2025

- Created weekly lesson plans to convey biological topics in an ordered fashion to students
- Designed slide decks and graphics to engage and communicate complex science to students
- Collaborated with colleagues to synchronize learning goals and uphold school principles

Postdoctoral Researcher, Vanderbilt University 2023-2024

- Developed technical workflows for a novel metabolic monitoring technique that drove continued NIH funding
- Analyzed and formatted data into a poster and over ten slide decks for lab and departmental meetings
- Collaborated with a team of internal and external researchers to storyboard a publication that is in preparation

Graduate Research Assistant, Louisiana State University 2018-2023

- Directed three projects and collaborated on an additional three projects to publish a total of seven manuscripts
- Designed and presented posters at five international conferences and slide decks at over ten regional meetings
- Contributed data in graphical formats and wrote or co-wrote five grant proposals (NIH, W.M. Keck, AFAR, and LSU internal grant) generating over \$2 million for the lab

## **EDUCATION**

Ph.D., Biology, Louisiana State University 2018-2023

M.S., Biology, University of Kentucky 2016-2018

B.S., Biology, University of Kentucky 2012-2016

## **SELECTED PUBLICATIONS**

**Butsch, T.J.**, Johnson, A.E., Bohnert, K.A. (2025). Meiotic activation of Mitf/TFEB declines with age in the *Drosophila* testis. *MicroPublication Biol.* doi: 10.17912/micropub.biology.001509.

**Butsch, T.J.**, Dubuisson, O., Johnson, A.E., Bohnert, K.A. (2023). VCP promotes tTAF-target gene expression and spermatocyte differentiation by downregulating mono-ubiquitinated H2A. *Development.* doi: 10.1242/dev.201557.

**Butsch, T.J.**, Johnson, A.E., Bohnert, K.A. (2023). Rbp4-Gal4, a germline driver that activates in meiosis, reveals functions for VCP in spermatid development. *Fly.* doi: 10.1080/19336934.2023.2234795.

Villalobos, T.V., Ghosh, B., DeLeo, K.R., Alam, S., Ricaurte-Perez, C., Wang, A., Mercola, B.M., **Butsch, T.J.**, Ramos, C.D., Das, S., Eymard, E.D., Bohnert, K.A., Johnson, A.E. (2023). Tubular lysosome induction couples animal starvation to healthy aging. *Nat Aging.* doi: 10.1038/s43587-023-00470-6.

## **HONORS AND AWARDS**

Vanderbilt Cell and Developmental Biology Destination Postdoctoral Scholar Award	2023
Mary Applewhite Superior Graduate Student Scholarship, Louisiana State University	2022
Ron and Mary Neal Distinguished Graduate Student Fellowship, Louisiana State University	2021
Best Talk, LSU Biograds Symposium, Cell and Developmental Biology Session	2021