



## Arvie Violette

Ph.D. Student in Biophysics, admitted Autumn 2023

### Publications

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#### PUBLICATIONS

- **Development of ACE2-tropic-betacoronavirus therapeutics for future pandemic preparedness.** *Nature communications*  
Utz, A., Armbrust, M., Nguyen, T. T., Morris, M. K., Matthews, C. O., Kompella, P., Cao, Z., Ha, J. W., Violette, A., Brewer, R. C., Lanz, T. V., Robinson, W. H., Xu, et al  
2025
- **Genome-scale resources in the infant gut symbiont *Bifidobacterium breve* reveal genetic determinants of colonization and host-microbe interactions.** *Cell*  
Shiver, A. L., Sun, J., Culver, R., Violette, A., Wynter, C., Nieckarz, M., Mattiello, S. P., Sekhon, P. K., Bottacini, F., Friess, L., Carlson, H. K., Wong, D. P., Higginbottom, et al  
2025
- **Improved mouse models of the small intestine microbiota using region-specific sampling from humans.** *bioRxiv : the preprint server for biology*  
Culver, R. N., Spencer, S. P., Violette, A., Lemus Silva, E. G., Takeuchi, T., Nafarzadegan, C., Higginbottom, S. K., Shalon, D., Sonnenburg, J., Huang, K. C.  
2024
- **A mutant fitness compendium in *Bifidobacteria* reveals molecular determinants of colonization and host-microbe interactions.** *bioRxiv : the preprint server for biology*  
Shiver, A. L., Sun, J., Culver, R., Violette, A., Wynter, C., Nieckarz, M., Mattiello, S. P., Sekhon, P. K., Friess, L., Carlson, H. K., Wong, D., Higginbottom, S., Weglarz, et al  
2023