**Veronica R. Olaker**

Preferred name: Vern

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EDUCATION

2021-present Case Western Reserve University (CWRU) School of Medicine

* Doctor of Medicine (expected May 2026)
* MPH (expected May 2024)

2017-2021 Ohio State University

Bachelor of Science

* Major in Neuroscience
* Specialization for major in cellular and molecular neuroscience
* GPA: 3.846

HONORS AND AWARDS

2021 Ohio State University Graduation *summa cum laude* in Neuroscience

2017-2021 OSU Honors Program

2018 OSU College of Medicine Humanism in Medicine Humanism Award

WORK EXPERIENCE

2016-2024 Stewart’s Pharmacy, Greenfield, OH

* Deliver medications to customers
* Interact with customers, pharmacist, and pharmacy techs to provide quality care

RESEARCH EXPERIENCE

2023-present Case Western Reserve University, University Hospitals

PI: Dr. Rachel Pope

Project: The project I am currently developing with this group involves a survey-based study to investigate prevalence of pain with sex among OB/GYN patients within the UH hospital system in Cleveland, OH. We want to assess if there is a disparity in women who report pain with sex on the survey and if they report ever being asked this question by their gynecology provider.

2021-present Case Western Reserve University, MetroHealth

PI: Drs Pamela Davis, Rong Xu, David Kaelber, and Pauline Terebuh

Projects: In this lab group, I work with a large electronic health record data platform called TriNetX. We use this platform to perform retrospective epidemiologic cohort studies. Topics I have studied include COVID-19, alcohol use disorder (AUD), type 1 diabetes, Alzheimer’s disease, and mental health disorders such as depression and anxiety.

2018-2021 OSU Vision and Cognitive Neuroscience Lab

PI: Dr. Julie Golomb

Project: My mentor’s previous experiments involved a four-item perceptual memory task, where a “rich location” was more likely to contain the target than the other locations. When the target was next to this location, instead of being more likely to accidentally report the feature in the rich location, participants tended to avoid it. The reason for this effect was unknown, leading us to design an experiment to address this. During analysis, we discovered evidence for a surprising attentional tendency that challenged previous assumptions. Further analysis indicated this may be a potentially novel attentional effect. Currently, I’m proposing an experimental design to investigate this effect further.

2019 Humanism in Medicine Research Team, OSU College of Medicine

PI: Dr. Linda Stone

Project: The Humanism in Medicine Research Team is a student led research group that studies the role of humanism in medical education. For a qualitative study, I transcribed 24 interviews with OSU medical students who majored in the humanities. I transcribed and aided in interpretation of original research presented at national and international conferences, which include: American Osler Society; April 26 2020 (platform presentation) National Summit on Promoting Well-being and Resilience in Healthcare Providers; Oct. 10-11 2020 (accepted poster) Learn Serve Lead 2019; AAMC; Nov. 6-8 2019 (poster presentation) Fall Education Symposium; OSU College of Medicine; Oct. 8 2019 (accepted poster)

2018 Vanderbilt University

PI: Dr. Susan R. Wente

Title: Nucleocytoplasmic shuttling of Gle1 is involved in R-loop biology

Project: Dr. Wente’s group discovered that the protein Gle1 is critical for export of mRNA from the nucleus and translation. Studies in HeLa cells then focused on Gle1’s nuclear roles, and identified increased DNA:RNA hybrid “R-loop” levels when Gle1 nucleocytoplasmic shuttling was disrupted. My project aimed to incrementally build evidence for the role of Gle1 in R-loop biology by investigating if the effect is conserved in non-cancerous human cells. Indeed, I observed both poly(A) RNA and R-loop accumulation in the nucleus of non-cancerous cells, supporting the physiological relevance of Gle1’s role in R-loop biology.

BIBLIOGRAPHY

Peer Reviewed Articles

1. Kendall, E. K., **Olaker, V. R**., Kaelber, D. C., Xu, R., & Davis, P. B. (2022). Association of SARS-COV-2 infection with new-onset type 1 diabetes among pediatric patients from 2020 to 2021. *JAMA NetworkOpen*, *5*(9). https://doi.org/10.1001/jamanetworkopen.2022.33014
2. Gorenflo, M. P., Davis, P. B., Kendall, E. K., **Olaker, V**. R., Kaelber, D. C., & Xu, R. (2023). Association of aspirin use with reduced risk of developing alzheimer’s disease in elderly ischemic stroke patients: A retrospective cohort study. *Journal of Alzheimer’s Disease*, *91*(2), 697–704. https://doi.org/10.3233/jad220901
3. **Olaker, V.** R., Kendall, E. K., Wang, C. X., Parran, T. V., Terebuh, P., Kaelber, D. C., Xu, R., & Davis, P. B. (2023). Association of recent SARS-COV-2 infection with new-onset alcohol use disorder, January 2020 through January 2022. *JAMA Network Open*, *6*(2). https://doi.org/10.1001/jamanetworkopen.2022.55496
4. Wang, C. X., Kohli, R., **Olaker, V. R.,** Terebuh, P., Xu, R., Kaelber, D. C., & Davis, P. B. (2024, accepted, waiting for publication date). Risk for diagnosis or treatment of mood or anxiety disorders in adults after SARS-CoV-2 infection, 2020-2022. *Molecular Psychiatry.*
5. Terebuh, P., **Olaker, V. R.**, Kendall, E. K., Kaelber, D. C., Xu, R., & Davis, P. B. (2024, accepted, waiting for publication date). Liver abnormalities following SARS-CoV-2 infection in children under 10 years of age. *Family Medicine and Community Health.*

Poster Presentations

1. **Olaker, V. R.,** Sharma, M., Wente, S. R. (2018, August). Nucleocytoplasmic shuttling of Gle1 is involved in R-loop biology. Poster presented at Vanderbilt Summer Science Academy presentation day in Nashville, TN.
2. **Olaker, V. R**., Terebuh, P., Kendall, E. K., Wang, C. X., Parran, T. V., Kaelber, D. C., Xu, R., Davis, P. D. (2023, April). Temporal association of new onset alcohol use disorder following SARS-CoV-2 infection from 2020-2022. Poster presented at Association of Clinical and Translational Science Annual Conference in Washington D.C.
3. **Olaker, V**. **R.** Terebuh, P., Parran. T. V., Kaelber, D. C., Xu, R., Davis, P. D. (2023, October). Increased risk for new prescriptions of naltrexone, disulfiram, or acamprosate in patients with alcohol use disorder during the COVID-19 pandemic. Poster presented at the Ohio Society of Addiction Medicine Annual Conference in Columbus, OH.

COMMUNITY SERVICE

2023 - present St. Vincent Charity Hospital MAT Clinic

* Collect vitals and urine drug screens
* Communicate effectively with physicians and fellows to streamline patient care
* Interact with patients to schedule follow-up visits

2021 - present Doc Opera, CWRU SOM

* GARLA LA Land, December, 2021 (Singer)
* Stitch Perfect, December, 2022 (Singer)
* Medically Blonde, December, 2023 (Singer)

2018 - 2020 Ronald McDonald House Charities, Columbus, OH

* Cleaned and stocked guest rooms
* Worked efficiently with staff and volunteers to give families the best possible experience
* Prepared meals for families when meal groups cancel
* Cleaned kitchen area and dining room

2018-2020 Adena Greenfield Medical Center, Greenfield, OH

* Front desk volunteer
* Assisted patients in finding their destination in the hospital
* Operated waiting room gift shop by being a cashier, helping shoppers find items of interest, and keeping store stocked

LEADERSHIP

2023 - present TriNetX Student Group, CWRU School of Medicine

* Student Leader
* The focus of this group is to bring students together with an interest in big data and clinical informatics and troubleshoot issues with the TriNetX data platform together. We host monthly workshops where we present slides about study design in TriNetX and work through questions with people who are using the database. We also work with TriNetX direclty to coordinate their analysts to join us for special office hours sessions.

MEMBERSHIPS

American Medical Association

American Society of Addiction Medicine

American College of Obstetrics and Gynecology

**Interests:** hiking, dog training, singing, playing guitar, plant-based cooking, golf, running, and yoga