

# Tori (Victoria) L. Fisher

## Curriculum Vitae

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Graduate Student, Columbia University

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### EDUCATION

Ph.D. Neurobiology and Behavior, Columbia University, Present

B.A., Neuroscience, Biology, Oberlin College, 2021

### RESEARCH EXPERIENCE

2024 Graduate Student, Advisor: Guillermo Horga  
Department of Neurobiology and Behavior, Columbia University

2021 Postgraduate Associate, Advisor: Albert R. Powers  
Department of Psychiatry, Yale University School of Medicine

2018 Undergraduate Research Assistant, Advisor: Leslie Kwakye  
Department of Neuroscience, Oberlin College

### PUBLICATIONS

2024 **Fisher, V. L.**, Hosein, G. X., Epić, B., and Powers, A. R. Biomarkers of Auditory-Verbal Hallucinations. *Springer Nature*. *In-press*

2024 del Rio, M., Kafadar, E., **Fisher, V. L.**, D'Costa, R., Powers, A. R., and Ward, J. Multiple mechanisms for phantom perception: a conditioned hallucinations paradigm and model in synaesthesia. *Scientific Reports*. DOI: <https://doi.org/10.1038/s41598-024-53663-3>

2023 Benrimoh, D. <sup>†</sup>, **Fisher, V. L.** <sup>†</sup>, Seabury, R., Sibarium, E., Mourgues, C., ... and Powers, A. R. Evidence for Reduced Sensory Precision and Increased Reliance on Priors in Hallucination-Prone Individuals in a General Population Sample. *Schizophrenia Bulletin*. DOI: <https://doi.org/10.1093/schbul/sbad136>

<sup>†</sup>Denotes Authors contributed equally.

2023 Benrimoh, D., **Fisher, V. L.**, Mourgues, C., Sheldon, A., Smith, R., and Powers, A.R. Barriers and Solutions to the Adoption of Translational Tools for Computational Psychiatry. *Molecular Psychiatry*. DOI: <https://doi.org/10.1038/s41380-023-02114-y>

- 2023 Drusko, A., Baumeister, D., Christensen M. M., Kold, S., **Fisher, V. L.**, ... and Tesarz, J. A novel computational approach to pain perception modelling within a Bayesian framework using quantitative sensory testing. *Scientific Reports*. DOI: <https://doi.org/10.1038/s41598-023-29758-8>
- 2023 **Fisher, V. L.**<sup>†</sup>, Dean, C. L.<sup>†</sup>, Nave, C. S., Parkins, E. V., Kerkhoff, W. G., and Kwakye, L. D. Increases in sensory noise predict attentional disruptions to audiovisual speech perception. *Frontiers in Human Neuroscience*. DOI: 10.3389/fnhum.2022.1027335
- <sup>†</sup>Denotes Authors contributed equally.
- 2022 **Fisher, V. L.**, Ortiz, L. S., and Powers, A. R. A computational lens on menopause-associated psychosis. *Frontiers in Psychiatry*. <https://doi.org/10.3389/fpsyt.2022.906796>.
- 2022 Kafadar, E.<sup>†</sup>, **Fisher, V. L.**<sup>†</sup>, Quagan, B., Hammer, A., Jaeger, H., Mourgues, C., ... and Powers, A. R. Conditioned hallucinations and prior over-weighting are state-sensitive markers of hallucination susceptibility. *Biological Psychiatry*. <https://doi.org/10.1016/j.biopsych.2022.05.007>.
- <sup>†</sup>Denotes Authors contributed equally.
- 2022 Sheldon, A. D., Kafadar, E., **Fisher, V. L.**, Greenwald, M. S., Aitken, F., Negreira, A. M., ... Powers, A. R. Perceptual pathways to hallucinogenesis. *Schizophrenia Research*. <https://doi.org/10.1016/j.schres.2022.02.002>.
- 2022 Mourgues, C., Hammer, A., **Fisher, V. L.**, Kafadar, E., Quagan, B., Bien, C., ... Powers, A. R. Measuring Voluntary Control Over Hallucinations: The Yale Control Over Perceptual Experiences (COPE) Scales. *Schizophrenia Bulletin*. DOI: 10.1093/schbul/sbab144.

## CONFERENCE ACTIVITY

### Talks

- 2024 **Fisher, V. L.** and Benrimoh, D. Psychotic Symptom Emergence as a Window into Pathophysiology. *American College of Neuropsychopharmacology Annual Meeting 2024*. Phoenix, Arizona.
- 2021 **Fisher, V. L.**, Nave, S. C., Parkins, E. V., Kerkhoff, W. G., Dean, C. L., & Kwakye, L. D. Changes in Sensory Noise Explain Attentional Disruptions to Multisensory Perception. *Oberlin College Research Symposium 2021*. Virtual.
- 2021 Hosein, G., **Fisher, V. L.**, & Kwakye, L. D. Using the Noisy Encoding Disparity Model to Explain the Effects of Attention on Multisensory Integration. *Oberlin College Research Symposium 2021*. Virtual.

## Posters

- 2023 Seabury, R., **Fisher, V. L.**, Kafadar, E., Waade, P. T., Lim, C., Mathys, C., Powers, A. R. Do visual and auditory hallucinations relate to common or modality-specific prior precisions? *Computational Psychiatry Conference 2023*. Dublin, Ireland.
- 2023 Kwakye, L., Dandawate, A., Barana, A., Liberatore, S., **Fisher, V. L.** & Hosein, G. The impact of gaze behavior on attentional disruptions to multisensory speech perception. *Vision Sciences Society 23<sup>rd</sup> Annual Meeting*. Florida, United States of America.
- 2023 **Fisher, V. L.** Kafadar, E., Lim, C., Mathys, C., Powers, A. R. Auditory and Visual Hallucinations Associated with Modality-Specific Prior-Weighting. *Schizophrenia International Research Society 2023*. Toronto, Canada.
- 2021 **Fisher, V. L.**, Keppler, E., Wu, C., Allen, K. J. D., Gabbay, F. H. Stimulant Sensitivity is Associated with Alcohol Use in Women but not Men. *Research Society on Alcoholism Annual Conference*. Virtual.
- 2019 **Fisher, V.L.**, Jackson, M., Nave, C., Jung-Beeman, O., & Kwakye, L. D. Bayesian causal inference modeling of attentional effects on the temporal binding window of multisensory integration. *Society for Neuroscience 2019*. Chicago, United States of America.
- 2018 **Fisher, V.L.**, Jackson, M., & Kwakye, L. D. Bayesian Causal Inference Modeling of Multisensory Attention. *Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience*. Delaware, United States of America.

## HONORS & AWARDS

- 2023 T32 Early-Stage Training Grant Recipient, National Institute of Health
- 2021 Nancy Robell Prize in Neuroscience, Oberlin College Department of Neuroscience
- 2021 Stetson-Heiser Award for Excellent Empirical Research, Oberlin College Department of Psychology
- 2021 Phi Beta Kappa, Oberlin College
- 2019 Nu Rho Psi