

Cody Zhewei Cao

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Contact

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3071 East Hall
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Research Interests

Audiovisual communication, multisensory processes, neural oscillations

Education

Aug 2020- **PhD Student, Cognition and Cognitive Neuroscience**
University of Michigan
Advisor: David Brang

May 2020 **B.S., Brain & Cognitive Sciences, Honors**
University of Rochester
Advisor: John Foxe, Edmund Lalor
Thesis: Visual Cortical Tracking of Categorical Speech Features Is Enhanced for Trained Lip-readers During Silent Lipreading

Publications

Assessing combinatorial effects of HIV infection and former cocaine dependence on cognitive control processes: A high-density electrical mapping study of response inhibition; Wakim K-M, Freedman EG, Molloy CJ, N. Vieyto, **Cao Z**, Foxe JJ
[Neuropharmacology, 2021](#)

In review:

A linguistic representation of visual speech underlies successful lipreading [\[Preprint\]](#)
Nidiffer AR, **Cao CZ (co-first author)**, O'Sullivan AE, Szymula LA, Lalor EC

In prep:

The strength and timing of feedback processing is associated with resistance to visual backward masking during illusory contour processing (working title)
Foxe JJ, Myers EJ, Knight EJ, **Cao Z**, Nicholas EP, Molholm S, Freedman EG

Refereed conference abstracts *:Presenting

- Nov 2021** **Society for Neuroscience (SfN), submitted**
- Auditory Cortex Uses Visual Timing Information to Enhance Auditory Speech Perception; Cao, CZ*, Ganesan K, Stacey WC, Brang DJ**
- Successful decoding of lipreading information in auditory areas; Ganesan K., Jahn A., Cao CZ, Fine C, Brang DJ**
- May 2021** **International Society for Autism Research (INSAR)**
- Altered Visual Evoked Potentials to Illusory Contour Integration Among Children on the Autism Spectrum; Knight EJ, Myers EJ, Cao Z, Oakes LA, Nicholas EP, Freedman EG, Foxe JJ**
- Oct 2020** **Advances and Perspectives in Auditory Neuroscience (APAN)**
- Does auditory cortex receive linguistic information from visual cortex? Nidiffer AR*, Cao Z, O'Sullivan AE, Lalor EC**
- May 2020** **Cognitive Neuroscience Society (CNS)**
- Prior Exposure Enhances Cortical Entrainment to Unheard Speech During Silent Lip-reading; Cao Z*, O'Sullivan AE, Szymula LA, Nidiffer AR, Lalor EC**
- Oct 2019** **Society for Neuroscience (SfN)**
- Putting on the brakes: An EEG investigation of inhibitory control and action monitoring in HIV+ abstinent substance users; Wakim K-M *, Vieyto N, Molloy CJ, Cao Z, Freedman EG, Foxe JJ**
- April 2019** **The British Neuroscience Association (BNA)**
- Altered VEP responses to illusory contours in children on the autism spectrum; Myers EJ*, Cao Z, Nicholas EP, Freedman EG, Foxe JJ**
- The Neurobiology of Inhibitory Control in HIV+ Individuals with a History of Cocaine Dependence; Wakim K-M*, Molloy CJ, Cao Z, Freedman EG, Foxe JJ**
- The Neurobiology of Error Processing in HIV+ Individuals with a History of Cocaine Dependence ; Vieyto N*, Wakim K-M, Cao Z, Freedman EG, Foxe JJ**
- July 2018** **Federation of European Neuroscience Societies (FENS)**
- Inhibitory control in abstinent cocaine users with and without HIV: A preliminary fMRI study; Molloy CJ*, Wakim K-M, Cao Z, Havens AK, Freedman EG, Foxe JJ**

Electrophysiological correlates of inhibitory control in abstinent cocaine users with and without HIV; Wakim K-M *, Molloy CJ, Nicholas EP, Cao Z, Havens AK, Freedman EG, Foxe JJ

Teaching

Introduction to Cognitive Science, Dr. Rick Lewis, Fall 2021, University of Michigan

Introduction to Cognitive Psychology, Dr. Taraz Lee, Winter 2021, University of Michigan

Professional Societies

2019 – Cognitive Neuroscience Society

2020 – International Multisensory Research Forum

2020 – Society for Neuroscience