**Cody Zhewei Cao**

***Aug 2021***

**Contact**

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**Research Interests**

Audiovisual communication, neural oscillations , computational modeling

**Education**

**Aug 2020- PhD Student, *Cognition and Cognitive Neuroscience***

***Joint PhD Program, Scientific Computing, MICDE***

University of Michigan

*Advisor: David Brang, Jon Brennan*

**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*](https://www.biorxiv.org/content/10.1101/2021.02.09.430299v1)*]*

*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*

***Auditory Cortex Uses Visual Timing Information to Enhance Auditory Speech Perception***

***Cao, CZ\*****, Ganesan K, Stacey WC, Brang DJ*

**Refereed conference abstracts** *\*:Presenting*

**Nov 2021 Society for Neuroscience (SfN),** *accepted*

***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*

***2021 –*** *Society for Neuroscience*