**Cody Zhewei Cao**

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**Contact**

Website: zheweicao.github.io 3071 East Hall

Email: zhewei@umich.edu University of Michigan

**Research Interests**

Audiovisual communication, multisensory processes, neural oscillations

**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*

**Awards & Honors**

**2022 John Lustig & Irmgard Stahl Lustig Graduate Travel Fund,** *University of Michigan*

**2022 Kavli Summer institute in Cognitive Neuroscience**

**2022 Rackham Pre-candidate Research Fund,** *University of Michigan*

**2019 – 2020 Take Five Scholar,** *University of Rochester*

**2017 – 2020 Dean’s Scholarship,** *University of Rochester*

**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*

***The strength and timing of feedback processing is associated with resistance to visual backward masking during illusory contour processing***

*Foxe JJ, Myers EJ, Knight EJ,* ***Cao Z****, Nicholas EP, Molholm S, Freedman EG*

***Severely attenuated visual feedback processing in children on the autism spectrum***

*Knight EJ, Freedman EG, Myers EJ, Berruti AS, Oakes LA,* ***Cao Z****, Molholm. S, Foxe JJ*

***In prep:***

**Listeners extract spectral and temporal information from the mouth during naturalistic audiovisual speech (working title); *Cao, CZ,*** *Plass J, Weissman DH, Brang DJ*

***Auditory Cortex Uses Visual Timing Information to Enhance Auditory Speech Perception* (working title);  *Cao, CZ\*****, Ganesan K, Stacey WC, Brang DJ*

**Invited Talks:**

**April 2022 Cognitive Neuroscience Society (CNS) Data Blitz**

**Listeners extract spectral and temporal information from the mouth during naturalistic audiovisual speech; *Cao, CZ,*** *Plass J, Weissman DH, Brang DJ*

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

**Jan 2022 Cognitive Neuroscience Society (CNS)**

**Listeners extract spectral and temporal information from the mouth during naturalistic audiovisual speech; *Cao, CZ,*** *Plass J, Weissman DH, Brang DJ*

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

***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**

*Research Methods in Human Electroencephalography, Dr. David Brang, Winter 2022*, *University of Michigan*

*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 –*** *present Cognitive Neuroscience Society*

***2020 –*** *present International Multisensory Research Forum*

***2020 –*** *present Society for Neuroscience*