Kira Wegner-Clemens

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Education

PhD, Cognitive Neuroscience, George Washington University   Defended May 2024
- Dissertation: The Influence of Audiovisual Semantics on Attention
- Advisor: Sarah Shomstein

BA, Cognitive Science with Honors, Rice University   May 2017
- Minor in Neuroscience, Certificate in Russian
- University Distinction in Research

Experience

Graduate Research Fellow, George Washington University   Aug 2019 - Present
- PI: Sarah Shomstein (Psychological and Brain Sciences)
- Conducted series of studies on attention, semantics, speech perception
- Managed and taught research skills (coding, statistics) undergraduate research team
- Obtained nationally competitive funding (NIH F31) through research proposal

Research Coordinator, Baylor College of Medicine   July 2017 - July 2019
- PI: Michael Beauchamp (Neurosurgery)
- Collaborated on series of face and speech perception studies, resulting in 4 publications
- Investigated relationship between gaze behavior and autistic traits as lead author
- Developed novel data-driven quantification of human gaze behavior as lead author

Undergraduate Researcher   Aug 2015 - May 2017
- PI: Jeffrey Yau (Neuroscience)
- Investigated audiotactile frequency perception, resulting in publication

Skills & Additional Training
- **Programming languages:** Python, R, Matlab, Javascript, HTML
- **Experimentation:** psychophysics, eye tracking, online data collection (mTurk, AWS)
- **Training Programs:** Neuromatch Academy for Computational Neuroscience (2020), Kavli Summer Institute in Cognitive Neuroscience (2022)

Awards & Honors

NIH Kirschstein National Research Service Award (F31)	2022-2025
GW Psychology Richard Walk Dissertation Award	2024
GW Academic Excellence Fellowship	2019-2022
Rice Undergraduate Scholars thesis grant	2016-2017

Service

Ad hoc journal reviewing: Attention, Perception, & Psychophysics	2021-Present
GW Attention and Cognition Lab Manager	2021-2024
GW Cognitive Neuroscience Program Committee	2022
GW Cognitive Neuroscience Program Recruitment Coordinator	2020
President, Rice Neuroscience Society	2015-17

Publications

(*=equal contributions)

Wegner-Clemens, K., Kravitz, D.J, Shomstein, S. Task irrelevance guidance of attention in audiovisual semantic relationships. *In prep.*

McEvoy, K.*, **Wegner-Clemens, K.***, Auer, E., Eberhardt, S., Bernstein, L., Shomstein, S. Covert attention modulates visual speech perception independent of eye position. *In prep.*

Nag, S.*, Mahableshwarkar, P.*, **Wegner-Clemens, K.**, Cox, P., Kaplan, S., Teng, C., Kravitz, D., Mitroff, S. Efficiencies of online data collection. *In prep.*

Bean, S., **Wegner-Clemens, K.**, Shomstein, S., Malcolm, G.L. Semantically congruous sounds draw and hold gaze on objects across different scene backgrounds. *Under review.*

Wegner-Clemens, K., Malcolm, G., Shomstein, Search efficiency scales with audiovisual semantic relatedness in a continuous manner. *Under review.*

Wegner-Clemens, K., Malcolm, G., Shomstein, S. (2024) Predicting attention in real-world environments: the need to investigate crossmodal semantic guidance. *WIREs Cognitive Science.*

Wegner-Clemens, K., Malcolm, G., Shomstein, S. (2022) How much is a meow like a cow? A novel database of human judgements of audiovisual semantic relatedness. *Attention, Perception, & Psychophysics.*

Magnotti, J.F., Dzeda, K.B., **Wegner-Clemens, K.**, & Beauchamp, M.S. (2020). Weak observer–level correlation and strong stimulus-level correlation between the McGurk effect and audiovisual speech-in-noise: A causal inference explanation. *Cortex.*

Wegner-Clemens, K., Rennig, J., & Beauchamp, M.S. (2020). A relationship between Autism-Spectrum Quotient and face viewing behavior in 98 participants. *PLoS ONE.* 15(4): e0230866.

Rennig, J., **Wegner-Clemens, K.**, & Beauchamp, M.S. (2020) Face Viewing Behavior Predicts Multisensory Gain During Speech Perception. *Psychonomic Bulletin & Review.* 27, 70-77.

Wegner-Clemens, K., Rennig, J., Magnotti, J.F., & Beauchamp, M.S. (2019). Using principal component analysis to characterize eye movement fixation patterns during face viewing. *Journal of Vision.* Vol.19, 2.

Convento, S., **Wegner-Clemens, K. A.**, & Yau, J.M. (2019). Reciprocal Interactions Between Audition and Touch in Flutter Frequency Perception, *Multisensory Research*, 32(1), 67-85.

Conference Talks

Wegner-Clemens, K., Malcolm, G., Shomstein, S. Search speed scales with audiovisual semantic relatedness. Talk. Psychonomic Society, San Francisco, 2023.

Wegner-Clemens, K., Malcolm, G., Shomstein, S. Attentional prioritization scales with audiovisual semantic relatedness. Talk. Society for Neuroscience, Washington, DC, 2023.

Conference Posters

(*=equal contributions)

Wegner-Clemens, K., Kravitz, D., Shomstein, S. Semantic relationships between sounds and images modulate attention even when the stimuli are task-irrelevant. Poster. Vision Sciences Society, St. Pete's Beach, 2024.

McEvoy, K.*, **Wegner-Clemens, K**.*, Bernstein, L., Shomstein, S. Covert attention modulates visual speech perception independent of eye position. Poster. Object Perception, Attention, and Memory, San Francisco, 2023.

McEvoy, K.*, **Wegner-Clemens, K**.*, Bernstein, L., Shomstein, S. Covert attention modulates visual speech perception independent of eye position. Poster. Society for Neuroscience, Washington, DC, 2023.

Wegner-Clemens, K., Malcolm, G., Shomstein, S. *Semantic meaning guides audiovisual attention in a continuous manner*. Poster. International Multisensory Research Forum, Poster, 2023.

Wegner-Clemens, K., Malcolm, G., Shomstein, S. Search efficiency scales with semantic relatedness in audiovisual contexts. Poster. Vision Sciences Society, St. Pete's Beach, 2023.

Wegner-Clemens, K., Malcolm, G., Shomstein, S. Search efficiency scales with semantic relatedness in audiovisual contexts. Poster. Cognitive Neuroscience Society, San Francisco, 2023.

Wegner-Clemens, K., Malcolm, G., Shomstein, S. Search efficiency scales with audiovisual semantic relatedness. Poster. Object Perception, Attention, & Memory, Boston, 2022.

Wegner-Clemens, K., Malcolm, G., Shomstein, S. Audiovisual semantic relatedness of real–world objects. Poster. Vision Sciences Society, St. Pete's Beach, 2022.

Wegner-Clemens, K., Malcolm, G., Shomstein, S. Measures of Audiovisual Semantic Relatedness for Real-World Objects. Poster. Psychonomic Society, virtual, 2021.

Wegner-Clemens, K., Rennig, J., & Beauchamp, M.S. A relationship between Autism-Spectrum Quotient and face viewing behavior in healthy adults. Poster. Society for Neuroscience, Chicago, 2019.

Wegner-Clemens, K., Rennig, J., Magnotti, J.F., & Beauchamp, M.S. Fixation eigenimages reveal task and stimulus modulate differences in face viewing. Poster. Society for Neuroscience, San Diego, 2018.

Rennig, J., **Wegner-Clemens, K.,** & Beauchamp, M.S. Face Viewing Behavior Predicts Multisensory Gain During Speech Perception. Poster. Society for Neuroscience, San Diego, 2018.

Wegner-Clemens, K., Rennig, J., & Beauchamp, M.S. Interindividual Differences in Eye Movements Made During Face Viewing are Consistent Across Task and Stimulus Differences. Poster. International Multisensory Research Forum, Toronto, 2018.