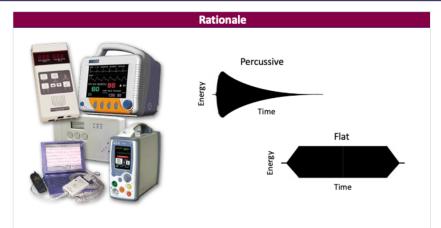


## Sufficient for annoyance, yet unnecessary for detection. Improving alarm design McMaster by embracing temporal variability. University

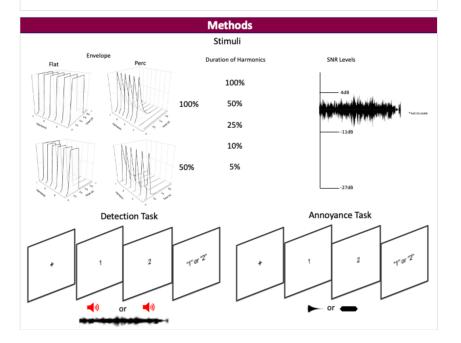
Liam Foley<sup>1,2</sup> & Michael Schutz<sup>3,2</sup>

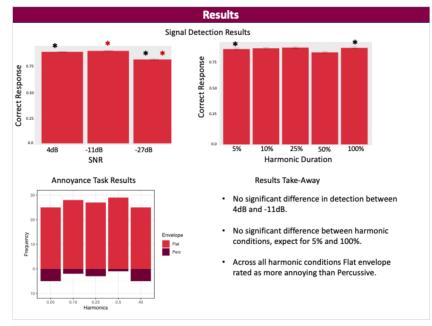
<sup>1</sup>Psychology, Neuroscience and Behavior; <sup>2</sup>McMaster Institute for Music and the Mind; <sup>3</sup>School of the Arts McMaster University





Are loud alarms necessary or sufficient for detection?





## **Conclusions and Future Directions**



- Preliminary support that annoyance can be decreased without sacrificing detectability with temporal variability.
- This will help address problems in the alarm space of hospitals.
- Next steps include adding speech comprehension tasks to mimic real world cognitive load.



## **Acknowledgements**

Thank you to Subeetsha Uthayakumar, Ben Kelly, Cameron Anderson, and Dr. Joseph Schlesinger for their help and support during this project.

