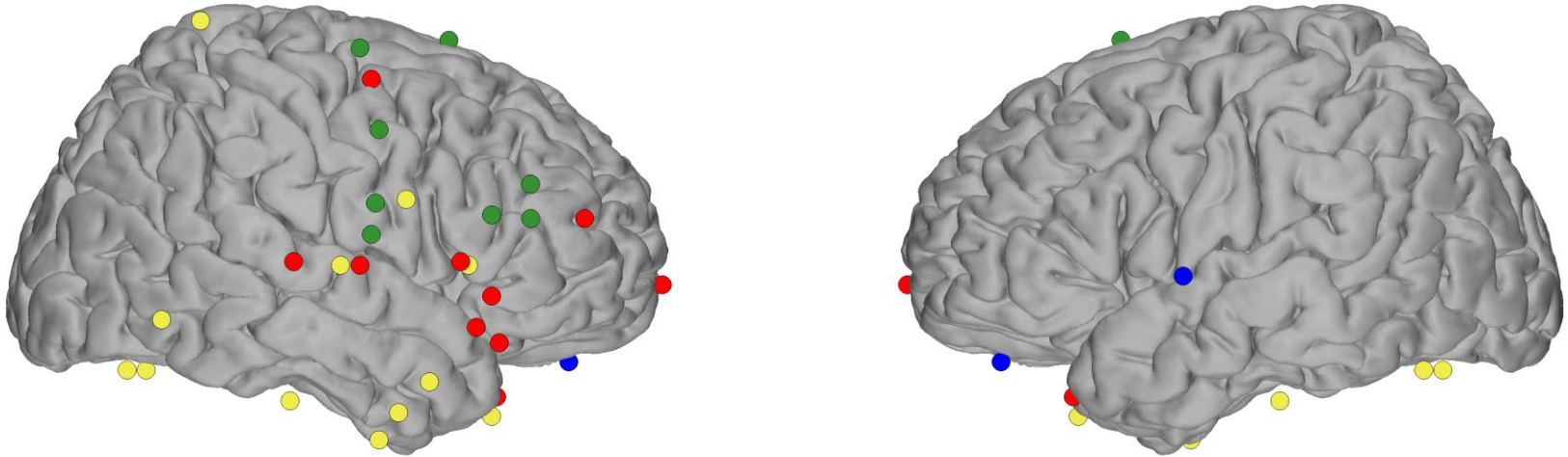


# Error Potentials post-hoc Analysis

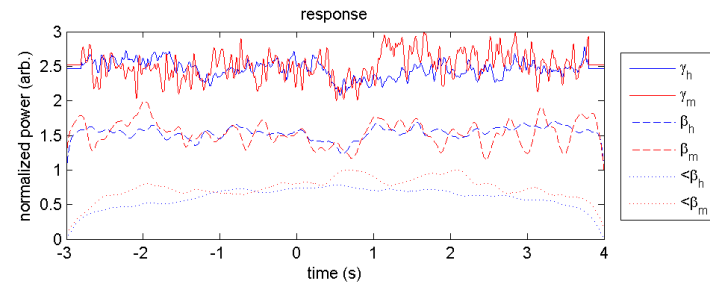
- Potential Abstract for BCI conference (Due Jan 4)
- 5 subjects analysed
  - All RJB
  - Multiple target counts
- Summary
  - in 4 of 5 subjects, multiple electrodes show notable differences in the HG range when comparing successful trials to unsuccessful trials.
  - Electrodes no spatial pattern across subjects
  - These differences typically occur at the end of the feedback period.
- Additional analyses (to do)
  - Determination of electrodes exhibiting significant differences from a pixel-cluster-based metric (a la fMRI)
  - Classification of missed trials (plan LDA classification using 4-fold validation, comparison of classification performance based on number of electrodes used in classifier)
  - Real-time detection of error signal (looking for suggestions on this, but it seems like an important step if we want to make the pitch toward abstract task structures)

# Spatial Distribution of Electrodes

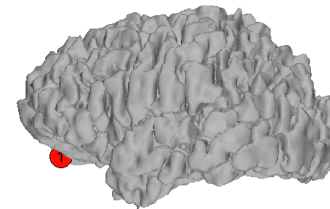
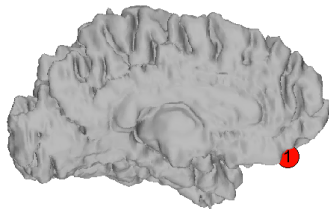
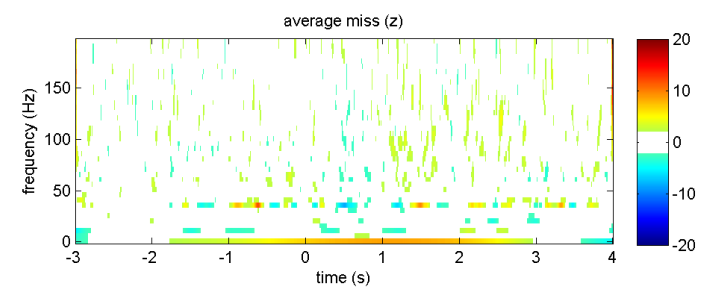
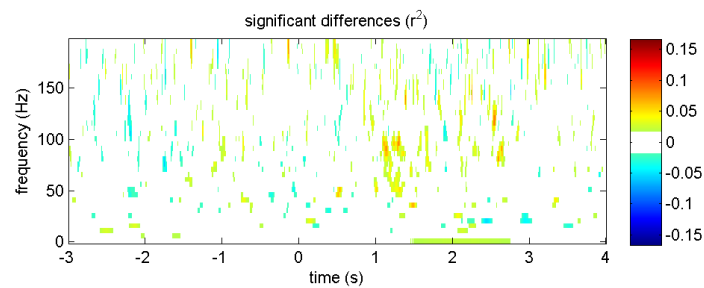
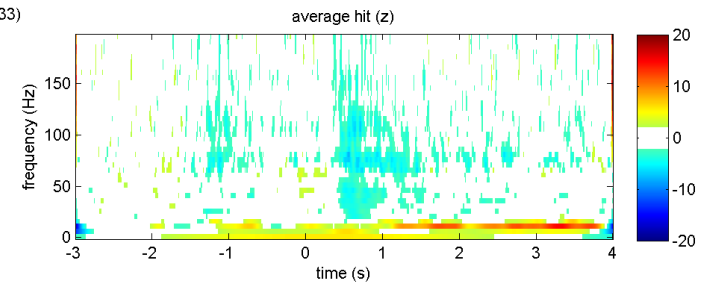


- S1 (left hemi)
- S2 (right)
- S3 (right)
- S4 (right)

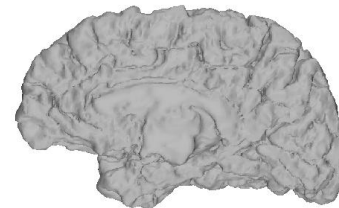
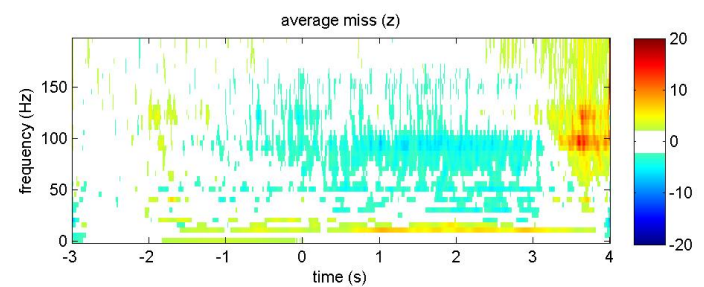
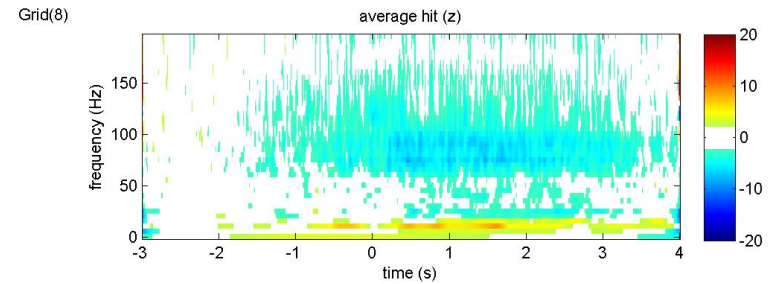
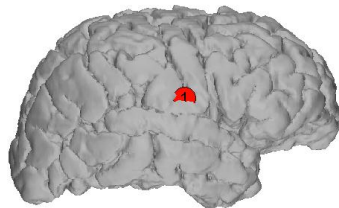
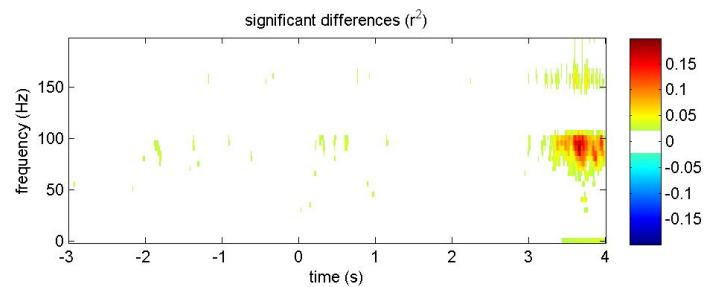
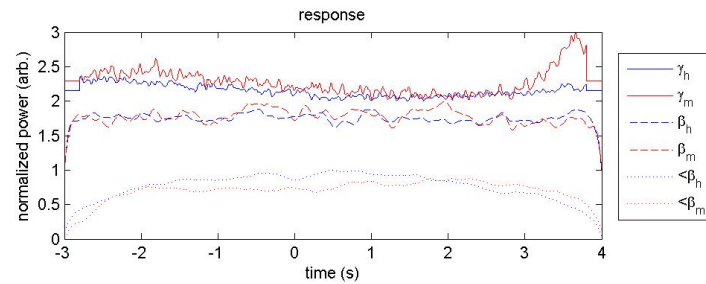
# Examples – S1



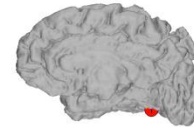
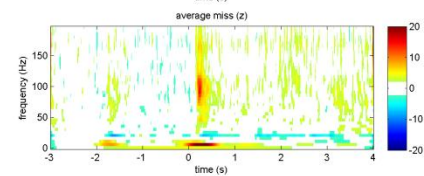
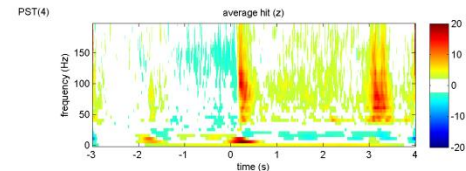
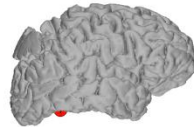
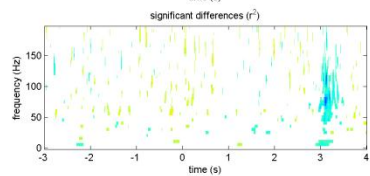
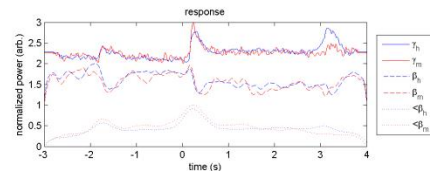
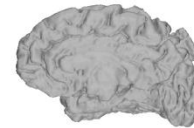
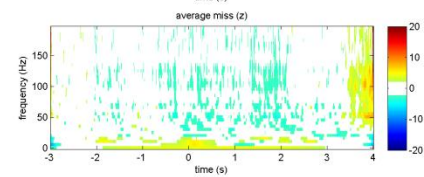
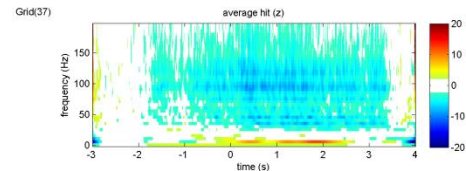
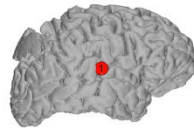
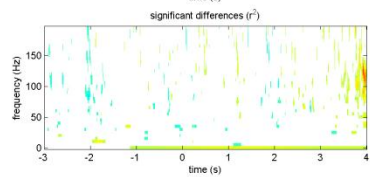
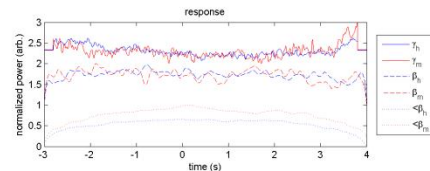
MiniGrid(33)



# Examples – S2



# Examples – S3



# Examples – S4

