

Longitudinal Assay of an Artist's Creative Process using MoBI Technology

Motivation

- Data Integrity
- Usability of MoBI
- Integration of MoBI into daily life
- Neural variability
- Neural individuality

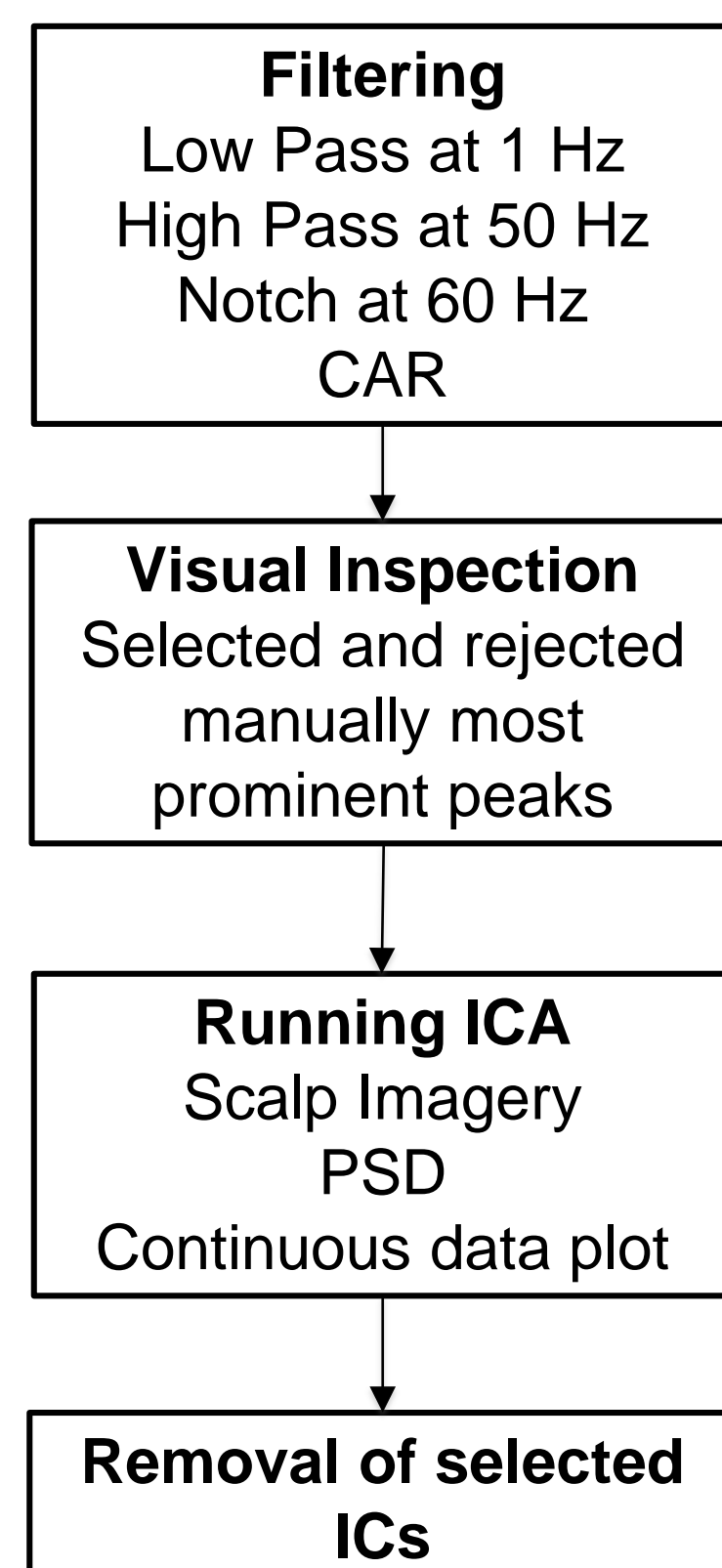
Data Streams



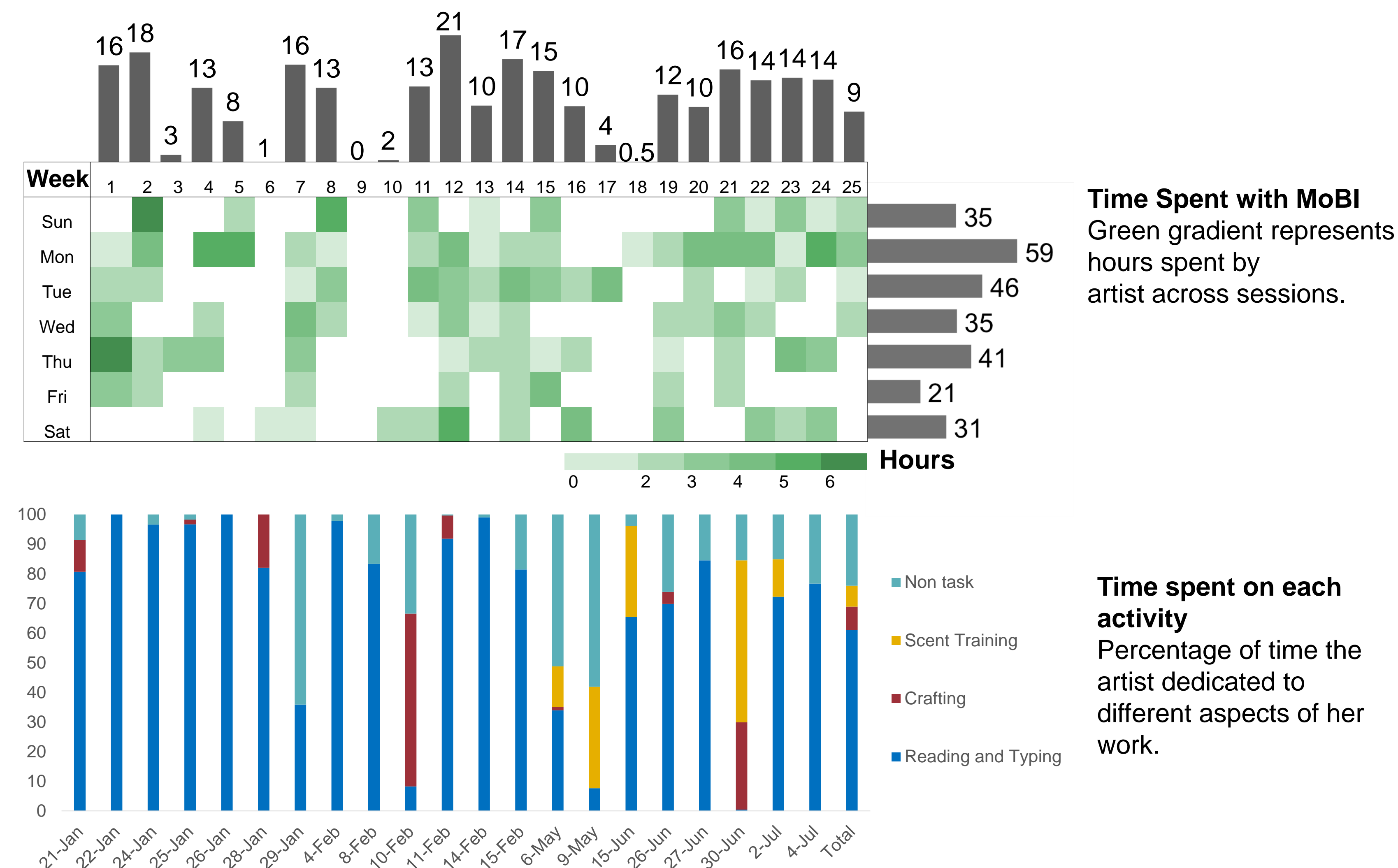
Location



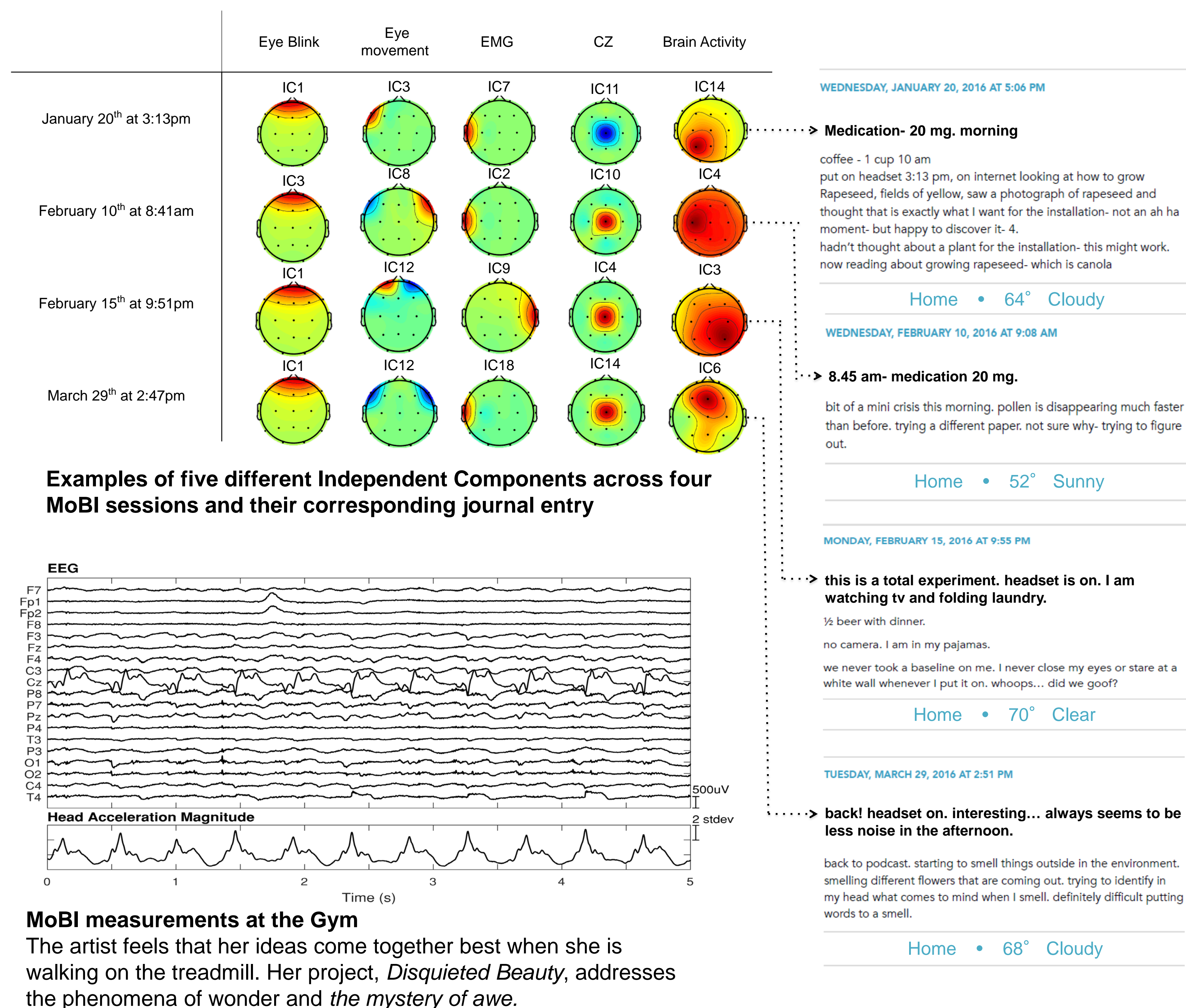
EEG Cleaning Method



Preliminary Results of Time Spent with MoBI and Video Segmentation



Preliminary Results of ICA and EEG data collection



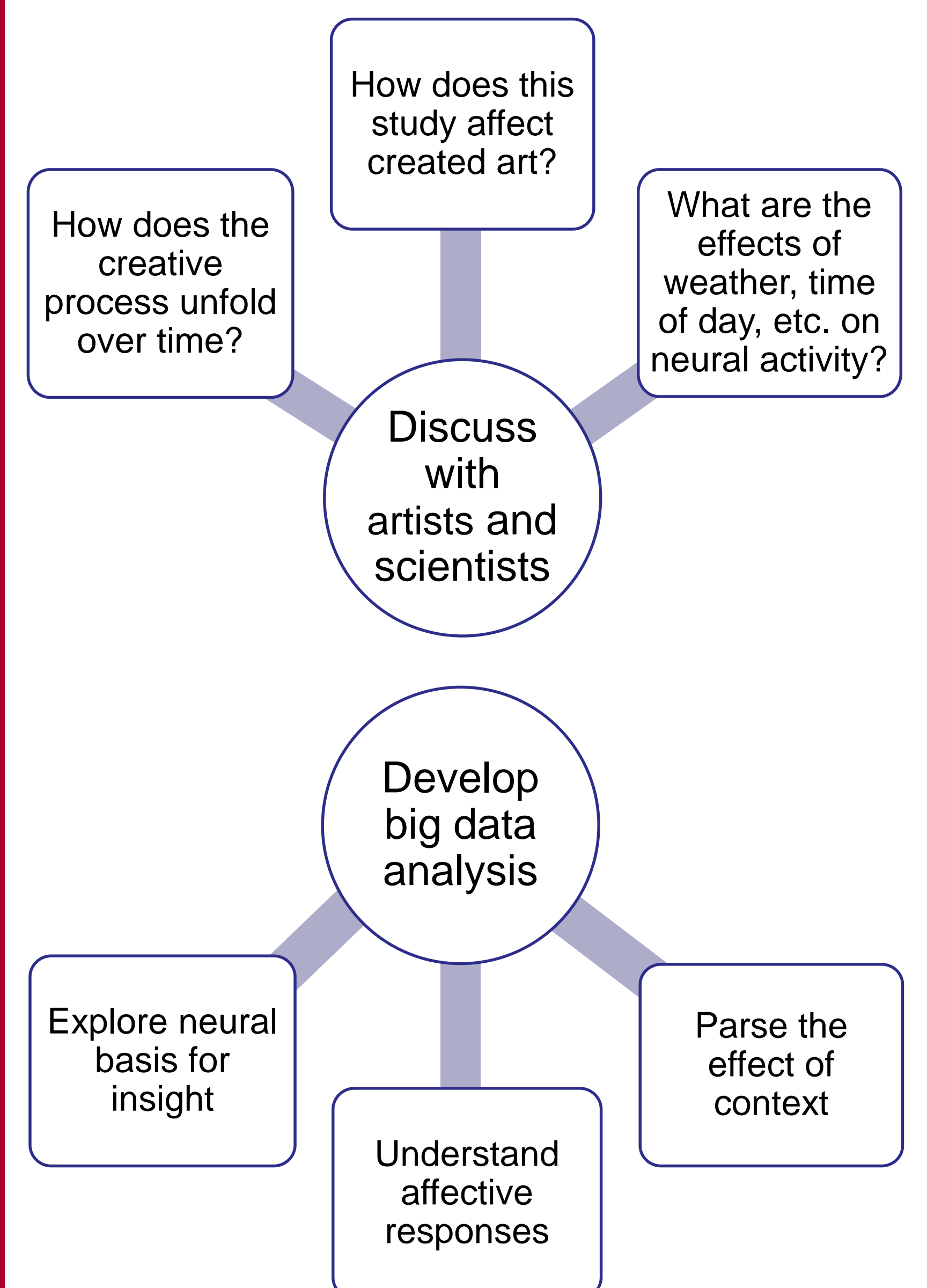
Conclusions

- Consistency of ICs across EEG files demonstrate data integrity.
- MoBI system allows EEG streaming in real world context.
- The artist uses the headset and video intermittently.

Challenges

- Data Integrity
- Usability of MoBI
- Integration of MoBI into daily life
- Neural variability
- Neural individuality

Next Steps



Acknowledgments

- Mélanie would like to thank the Houston Methodist Summer Undergraduate Research Internship.
- Anastasiya would like to thank the University of Houston Summer Undergraduate Research Fellowship.
- The team would like to thank the artist and co-author of this project, Jo Ann Fleischhauer.
- National Science Foundation award # BCS 1533691