## Oct 31, 2023 | [data play](https://www.google.com/calendar/event?eid=M25iaGhpcnBuNWFoZWJxMmNqdDhobWhlaG4gZ3VvZmFuZy5tYS5nckBkYXJ0bW91dGguZWR1)

Attendees: [J H](mailto:jane.han.gr@dartmouth.edu) [Freya Ma](mailto:guofang.ma.gr@dartmouth.edu), Joseph Nano

**Meeting Agenda**

* Discuss and share the **current progress**
* Discuss next steps and **future goals and steps**

**[Vision] Copied from proposal**

**Aim 1:** **Visualization of insomnia symptomatology in adolescents by subgroups**

1.1. Visually identify distinct subgroups among adolescents based on demographic variables (e.g., **Age, Race**) and their distribution on the **GCTI, ASHS, ASQ** battery tests.

1.2. Utilize data visualization techniques (e.g., **heatmap analysis**) to depict the relationship between identified subgroups and psychological factors. Provide an intuitive representation of how diverse psychosocial factors contribute to varied sleep patterns in adolescents.

**Aim 2:** **Statistical Analysis of Sleep Quality and Habits in Adolescents**

2.1. Use **sleep quality** to predict **mental health and habits** among adolescents with regression analyses.

2.2. Investigate if the interaction effect of significant predictor factor(s) above and the race factor is statistically significant.

**Next steps**

* Make the heatmap of different columns - Jane (both normalized and original)
* Age grouping exploratory analysis - Freya
* Create a google slide
  + Introduction - Joseph
  + Methodology
  + Discussion

**Final submission documents**

* Presentation 20 minutes
* Write-up

**Task, Action steps, and deadline**

* **Tuesday, Oct.31st,** 4pm-5pm
  + Finalize Aim #1
  + Continue to work on Aim #2
* **Thursday, Nov.2nd,** 4pm-5pm
  + Draft one presentation
* **Tuesday, Nov.7th, 4pm-5pm**
  + **Ask for Ashlee’s advise and feedback on our presentation**
  + Practice Presentation
* **Thursday, Nov.9th:** 
  + FINAL PRESENTATION
* **Future meetings:** 
  + ~~Thursday, Oct.19th, 4pm-5pm (or 4:30pm)~~
  + ~~Thursday, Oct.26th, 4pm-5pm (or 4:30pm)~~
  + ~~Tuesday, Oct.31st, 4pm-5pm (or 4:30pm)~~
  + ~~Thursday, Nov.2nd, 4pm-5pm (Draft one presentation? & TA feedback)~~
  + Tuesday, Nov.7th, 4pm-5pm (\*\*Practice Presentation\*\*)
  + **Thursday, Nov.9th: FINAL PRESENTATION**