ABCD MODELING DEVELOPMENTAL CHANGE 2021

- First Session -

Kind of like syllabus day

Structure of workshop

Goals of workshop

Introductions (small groups)

Journal club readings

Complete pre-workshop survey

Complete video release form

Take a break and return for afternoon session!

NIH National Institute of Mental Health

R25-MH125545

ABCD MODELING DEVELOPMENTAL CHANGE 2021

- Weekly Overview -

Tuesday: Learning

Wednesday: Application / Project Work

Thursday: Discussion

Friday: Project check-ins and Q&A with week's speakers

ABCD MODELING DEVELOPMENTAL CHANGE 2021

- Workshop Overview -

Week 1:	Introduction to ABCD Study
	Secondary Data Analysis
	Adolescent brain development and mental health

Week 2:	Data science tools
	Best practices for longitudinal neuroimaging

Week 3:	Mixed Effects Models
	Theories of change in psychopathology

Week 4:	Structural Equation Models (SEM)
	Social and environmental influences

Week 5:	Optional tutorials
	Wrap up

ABCD MODELING DEVELOPMENTAL CHANGE 2021

- Goals -

Learn how to conduct rigorous and reproducible analyses on ABCD data to understand brain development and mental health

Actively work on a project

Form collaborations

Establish a supportive network

ABCD MODELING DEVELOPMENTAL CHANGE 2021

- Introductions -

Who are you?

Where are you?

What are you planning to do or already doing with ABCD data?

What are your goals for the workshop?

You are moving to a new planet and can only bring three spices with you, which spices do you bring?

- Journal Club -

1. **Longitudinal modeling** in developmental neuroimaging research *(King et al., 2018)*

2. The ABCD study: understanding the **development of risk for mental and physical health** outcomes *(Karcher & Barch, 2021)*

3. **Meaningful associations** in the Adolescent Brain Cognitive Development Study *(Dick et al., 2021)*

4. **Baseline brain function** in the preadolescents of the ABCD Study *(Chaarani et al., 2021)*

Everyone read: **Responsible Use of Open-Access Developmental Data: The Adolescent Brain Cognitive Development (ABCD) Study** *(Simmons et al., 2021) by Wednesday*

ABCD MODELING DEVELOPMENTAL CHANGE 2021

- Surveys -

Anonymous pre-workshop survey:
https://forms.gle/se9ajgcg6oRRLrF9A

please write down your passcode/phrase

Not anonymous video release form:

https://forms.gle/w3W663KDW79TSkPU8