Building an Empirical Argument

With special guest student, "Sadie"

...who's looking to find background research for her proposal.

Slides prepared for the students in *The Developing Child* Minor and Certificate Program at University of California, Berkeley

Dependent variable

SADIE: *"I think there should be mindfulness curriculum in preschools, but I can't find any research on my topic."*

Dependent variable

S: "I think there should be mindfulness curriculum in preschools."

What do you think - would this would be convincing to stakeholders?

S: "There should be mindfulness curriculum in preschools."

Dependent variable

Prediction

PROF: "What do you think mindfulness curriculum would change?"





S: "There should be mindfulness curriculum in preschools."

Dependent variable

Prediction

PROF: "Why, what do you think mindfulness curriculum would change?"

S: "When kids cut each other in line, instead of being angry, they would be able to stay calm and not get upset or push the other kid."

Dependent variable

Prediction

S: "There should be mindfulness curriculum in preschools."

PROF: "Why, what do you think mindfulness curriculum would change?"

S: "When kids cut each other in line, instead of being angry, they would be able to stay calm and not get upset or push the other kid."

PROF: "What is 'staying calm and controlling your reaction'?"



Dependent variable

Prediction

S: "There should be mindfulness curriculum in preschools."

PROF: "Why, what do you think mindfulness curriculum would change?"

S: "When kids cut each other in line, instead of being angry, they would be able to stay calm and not get upset or push the other kid."

PROF: "What is 'staying calm and controlling your reaction'?"

MINDFULNESS CURRICULUM

"EMOTION REGULATION"

Dependent variable

Prediction

Measure

S: "There should be mindfulness curriculum in preschools."

PROF: "Why, what do you think mindfulness curriculum would change?"

S: "When kids cut each other in line, instead of being angry, they would be able to stay calm and not get upset or push the other kid."

PROF: "What is 'staying calm and controlling your reaction'?"



Dependent variable

Prediction

Measure

S: "There should be mindfulness curriculum in preschools."

PROF: "Why, what do you think mindfulness curriculum would change?"

S: "When kids cut each other in line, instead of being angry, they would be able to stay calm and not get upset or push the other kid."

PROF: "Ok, how do you think that would happen?" Will experiencing mindfulness curriculum **directly** cause preschoolers to start controlling their own emotions?



Dependent variable

Prediction

Measure

S: "There should be mindfulness curriculum in preschools."

PROF: "Why, what do you think mindfulness curriculum would change?"

S: "When kids cut each other in line, instead of being angry, they would be able to stay calm and not get upset or push the other kid."

PROF: "Ok, how do you think that would happen?" Will experiencing mindfulness curriculum **directly** cause preschoolers to start controlling their own emotions?

S: "**No**..."



Dependent variable

Prediction

Measure

S: "There should be mindfulness curriculum in preschools."

PROF: "Why, what do you think mindfulness curriculum would change?"

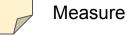
S: "When kids cut each other in line, instead of being angry, they would be able to stay calm and not get upset or push the other kid."

PROF: "How?"

S: "...I think that kids will be better at not reacting **because they'll be able to first even notice that they're angry**, or whatever they're feeling, which will make them more able to control those feelings."

Dependent variable





Mediating variable

S: "There should be mindfulness curriculum in preschools."

PROF: "Why, what do you think mindfulness curriculum would change?"

S: "When kids cut each other in line, instead of being angry, they would be able to stay calm and not get upset or push the other kid because they'll be able to first even notice that they're angry, which will make them more able to control that feeling."



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RECOGNITION Is there a clear

EMOTION

way to measure preschoolers' emotion **recognition**?

"EMOTION REGULATION"

Dependent variable

Prediction

Mediating variable

Literature

Measure

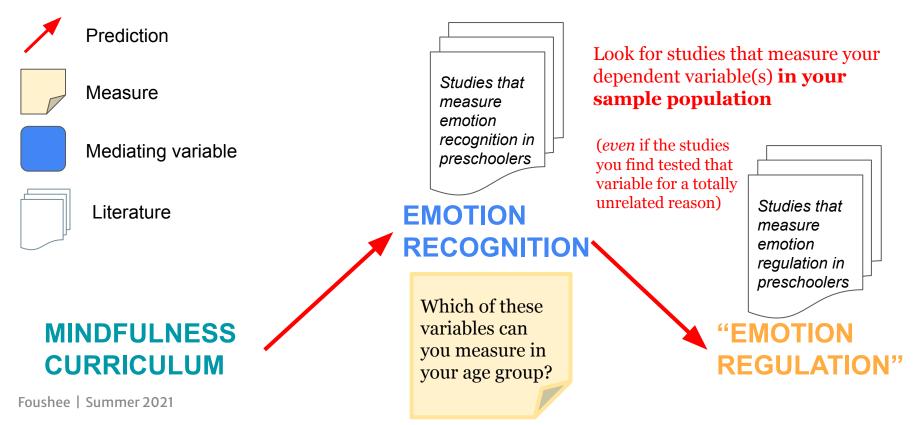
SADIE: "I predict that implementing mindfulness curriculum in preschools will increase preschoolers' capacity to recognize their emotions, which will in turn increase their capacity to regulate them."

What literature should Sadie look for to support her hypothesis?



Dependent variable

SADIE: "I predict that implementing mindfulness curriculum in preschools will increase preschoolers' capacity to recognize their emotions, which will in turn increase their capacity to regulate them."

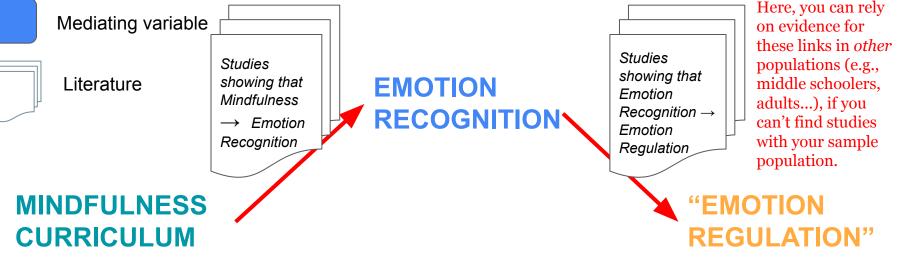


Dependent variable

Prediction

Look for studies providing **evidence of each link or connection between individual variables** in your hypothesis

Measure

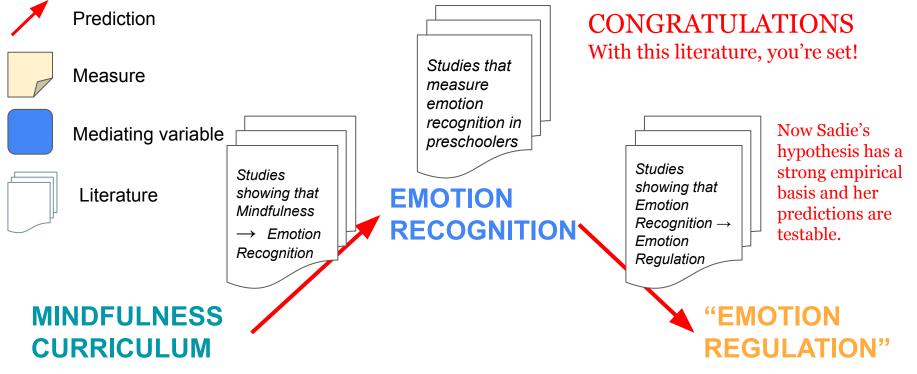


SADIE: "I predict that implementing mindfulness curriculum in preschools will increase preschoolers' capacity to recognize their

emotions, which will in turn increase their capacity to regulate them."

Dependent variable

SADIE: "I predict that implementing mindfulness curriculum in preschools will increase preschoolers' capacity to recognize their emotions, which will in turn increase their capacity to regulate them."



Your turn!

Independent variable

Dependent variable

Prediction/Relation

Measure



Mediating variable

Moderating variable

Literature

