Ideologies about mouthing and language background in ASL

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Mouthing

- Movements of the mouth in sign languages that match the movements made when articulating spoken language words
- Mouthing in ASL is (primarily) associated with English, and with written language
- Ideologies about mouthing:
 - e.g. Not part of "real" ASL (Nadolske & Rosenstock 2007)



MOTHER
(New Zealand Sign Language)
https://www.nzsl.nz/signs/4765

Research questions

How do presence of mouthing, language background and language ideology predict recall of signs in ASL?

What ideological profiles about mouthing exist among deaf American signers of ASL?

How does language background cluster with language ideology?

Design

Ideology Survey

Implicit ideology

Explicit ideology

Language background

Design

Ideology Survey

Implicit ideology

Explicit ideology

Language background

- Online survey
 - Questions in ASL and written English
 - Recall that mouthing is influenced by written English
- Measurement types: slider scale, multiple choice, multiple answer, open response

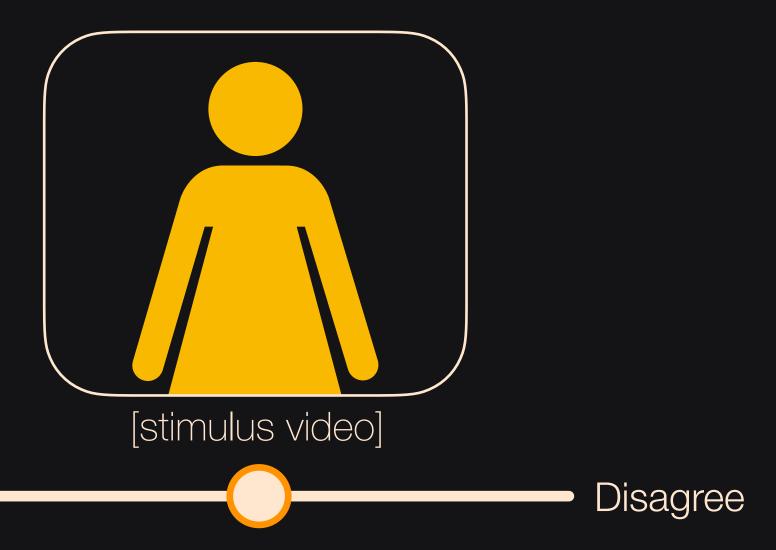
Design

- Variation of a Matched Guise task
- Participants will see 3 videos signed by 3 different signers that vary in quality and quantity of mouthing (Ferrara & Fontana 2019)
- They will rate these videos for aesthetic properties of the signing and signer



Rate how much you agree that the signing in the video below is pure

Agree



Agree

Prompts Properties of signing pure beautiful smooth Rate how much you agree that the signing in the video below is pure looks educated Properties of signer looks like a leader in the deaf community seems to be a strong deaf person looks hearing looks smart (Hill 2012) [stimulus video]

Disagree

Varying quality and quantity of mouthing

- Genre:
 - didactic context giving information about current events e.g. COVID, weather

What's another potential context?

Varying quality and quantity of mouthing

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What's another potential context?

- At least 3 examples of each mouthing predictor in text
 - Highlighted = predictor typically occurs with mouthing
 - ► Not highlighted = predictor does not typically occur with mouthing

Mouthing predictor	No mouthing	Some mouthing	Too much mouthing
Fingerspelling	X		
Nouns	×		
Emphasis	×		V
Repetition	×		
Low frequency words	X	V	V
Contrastive mouthing	×	×	
Directional verbs	×	×	
Aspect verbs	×	×	
Classifiers	×	×	
Prepositions	×	✓	▽
Conjunctions	×	✓	✓
Plain verbs	×	✓	▽
Modal verbs	X	V	V
Adjectives	X	V	V
Adverbs	X	V	V

Explicit ideologies

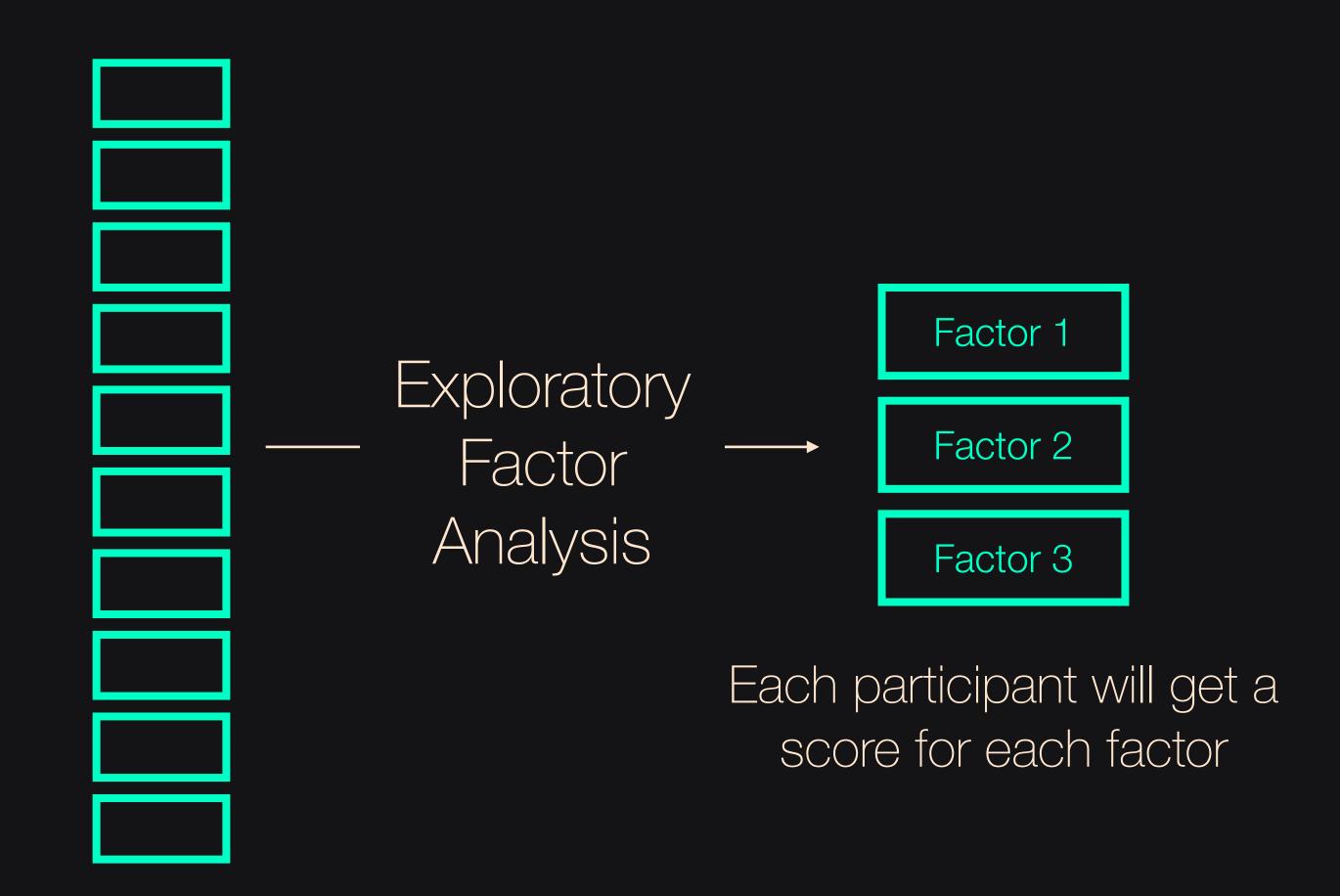
No.	Category	Question	Response	
1	Mouthing in general: association	Mouthing is part of ASL / associated with English	Coolo (Diocarco to Aaroo)	
		Mouthing should not be part of ASL		
3	language	Mouthing makes ASL less of a sign language	Scale (Disagree to Agree)	
4		Some signers mouth too much / do not mouth enough in ASL?		
5	Production of mouthing by hearing and deaf people	How much do deaf / hearing signers mouth in ASL?	Scale (Not at all to All the time)	
6		Mouthing is not used when deaf people use ASL with eachother		
7		Mouthing is only used when deaf people have to communicate with hearing people		
8		Mouthing helps me to understand ASL	Scale (Disagree to Agree)	
9		Mouthing helps me to be understood in ASL		
10		Mouthing in ASL is distracting		
11	Production of mouthing by self	How much do you use mouthing?	Scale (Not at all to All the time)	

Language background

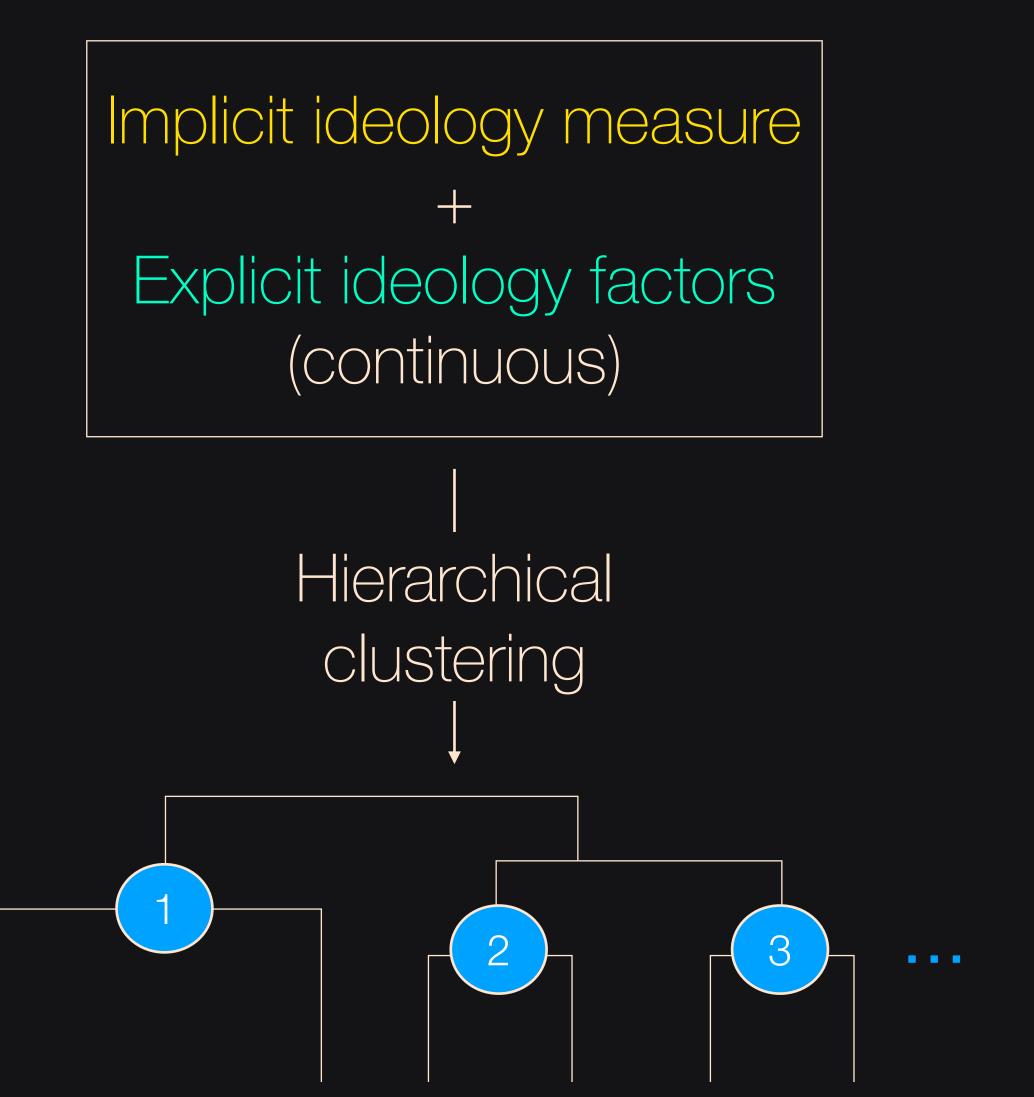
- Questions will target:
 - Aspects of identity e.g. audiological status, age, gender, ethnicity
 - Location e.g. past, present, length of time
 - Education
 - Language background e.g. age-of-acquisition, exposure to and interaction in ASL, other signing varieties and/or English

Explicit ideology

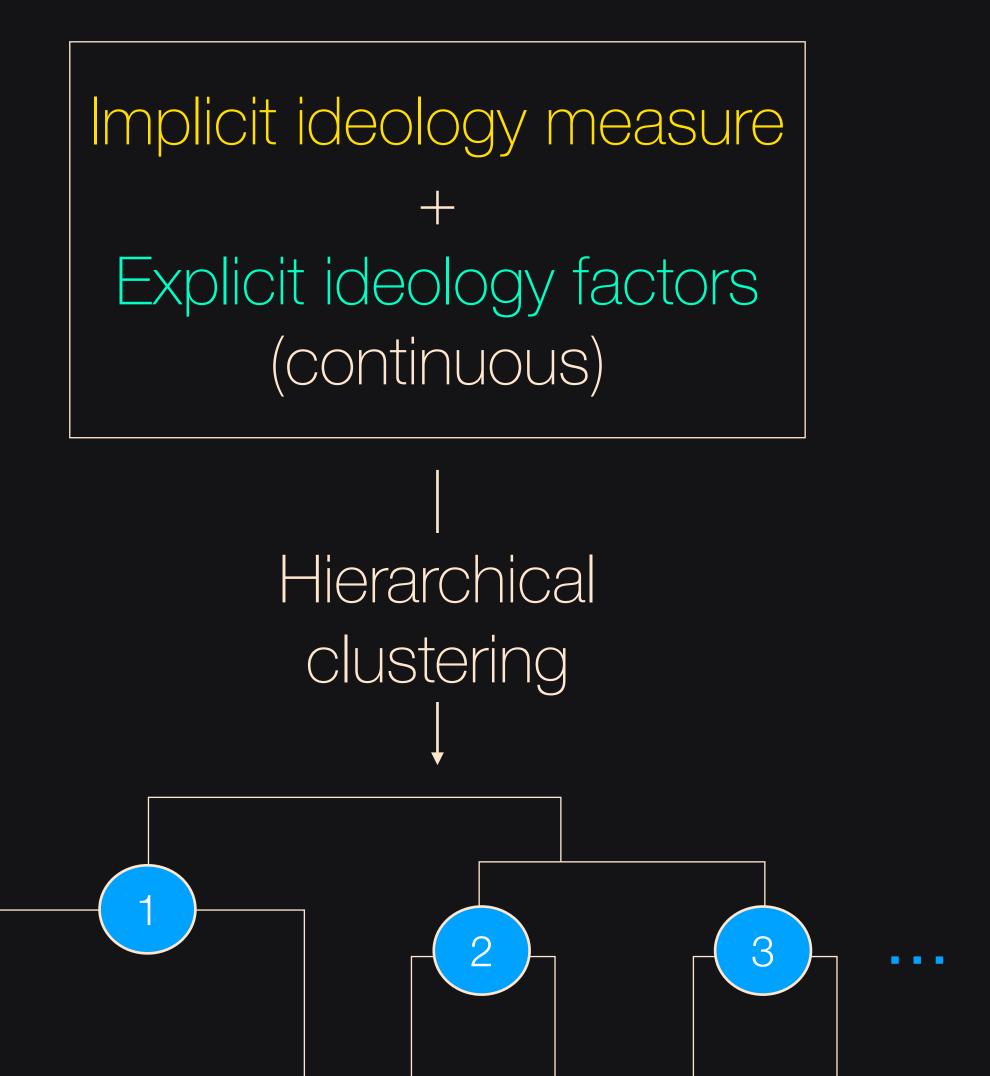
- Explicit ideology
 - Mouthing in general: association with ASL and English and language
 - Production of mouthing by hearing and deaf people
 - Comprehension
 - Production of mouthing by self



Combining implicit and explicit ideology

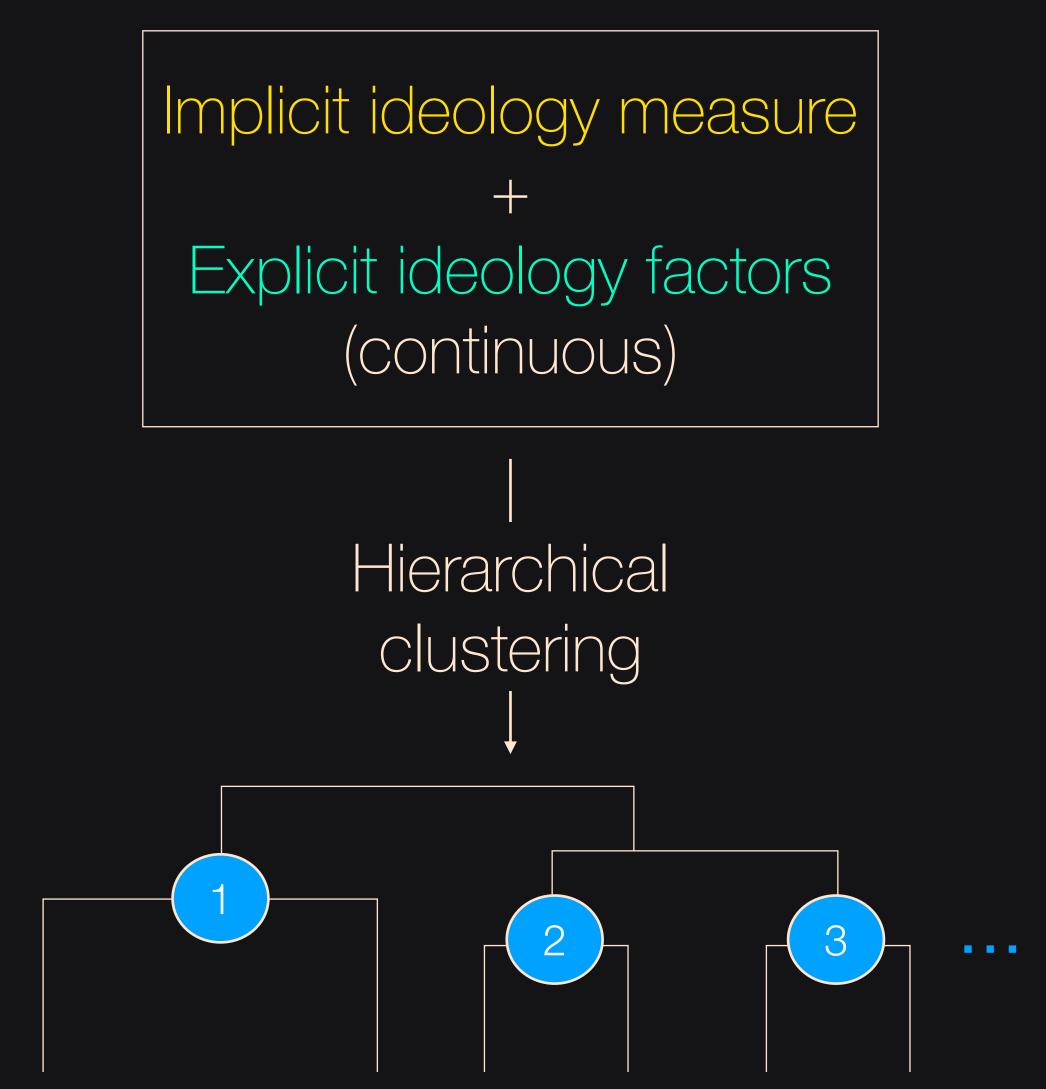


Combining implicit and explicit ideology



Profile type	Implicit	Explicit
	Positive	Positive
II	Positive	Negative
III	Positive	Neutral
IV	Negative	Positive

Combining implicit and explicit ideology



Profile type	Implicit	Explicit
	Positive	Positive
II	Positive	Negative
III	Positive	Neutral
IV	Negative	Positive
•••		

Positive, neutral and negative are for convenience. What are other ways of thinking of these profiles?

Drafila tura lippaliait	Explicit				
Prome type	Profile type Implicit	Factor 1	Factor 2	Factor 3	Factor 4
ı					
II					
III					
			••		

RQ2, How does language background <u>profile</u> relate to ideology <u>profile</u>?

1

Raw ideology + language background data

RQ2, How does language background profile relate to ideology profile?

1

Raw ideology + language background data

2

Ideology data <u>after factor</u> <u>analysis</u> + language background data

RQ2, How does language background profile relate to ideology profile?

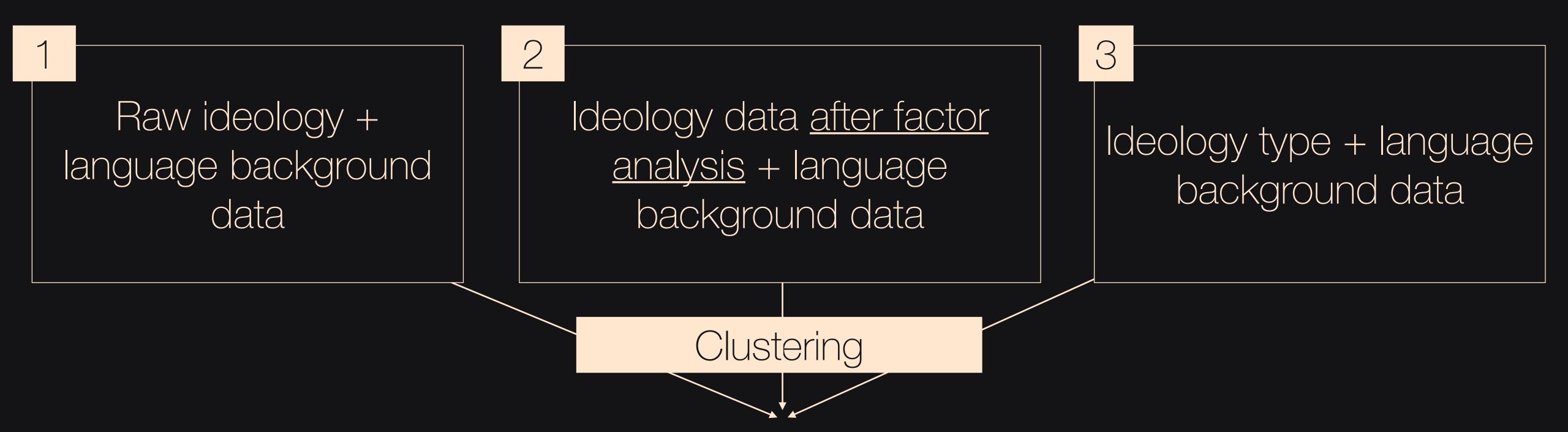
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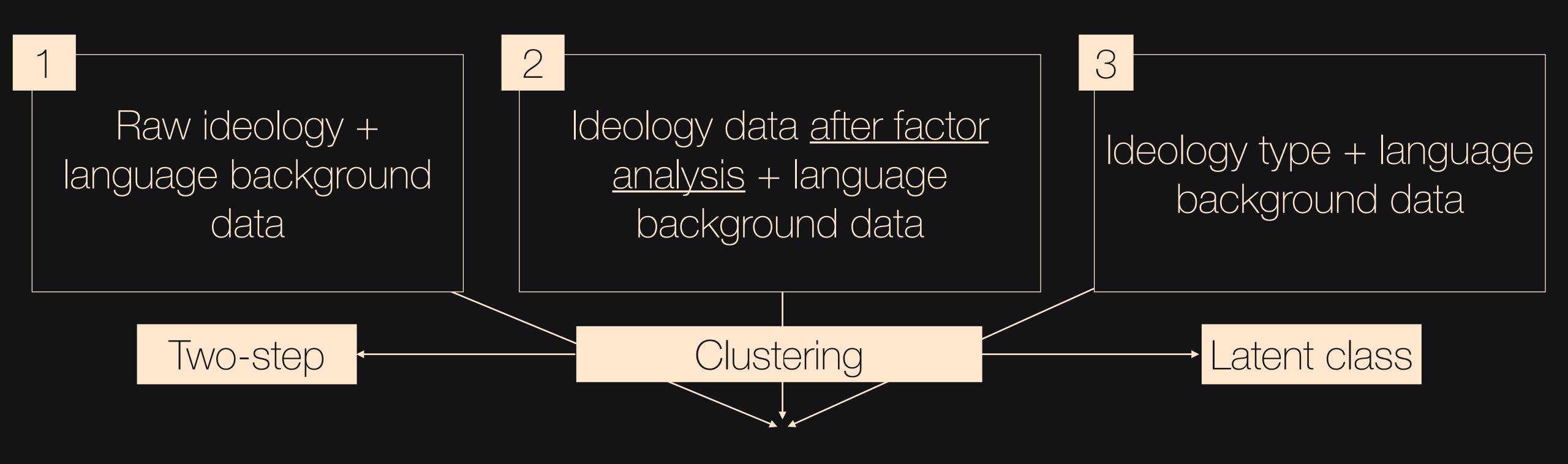
Raw ideology + language background data

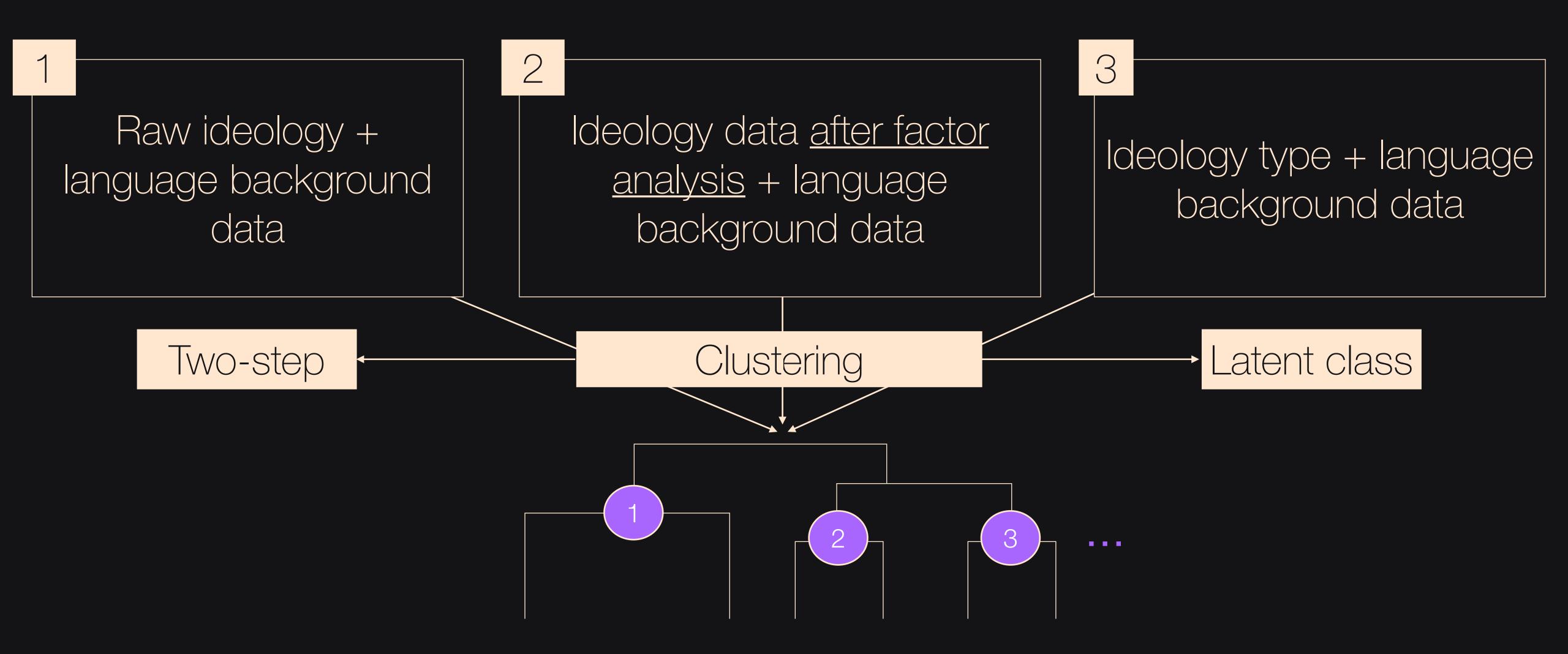
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Ideology data <u>after factor</u> <u>analysis</u> + language background data

Ideology type + language background data











Profile type	Implicit	Explicit
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RQ2, How does language background profile relate to ideology profile?

Language background	Ideology Options	
Raw (categorical, continuous)	Raw (continuous)	
	After Exploratory Factor Analysis (continuous)	
	Ideology type (categorical)	

How should ideology profile and language background profile be connected?

Which input ideology data should be used?
Should I use what I find in the previous analysis or "start over"?

Questions

- ▶ What issues can I expect trying to connect ideology profile and language background profile as opposed to, for example, connecting ideology factors to aspects of language background e.g. audiological status, age etc.?
- How to connect ideology profile to background profile?
 - Identify ideology and background profiles separately → replace raw data with profile categorisation → cluster
 - 2. Identify ideology profiles based on Exploratory Factor Analysis → remove raw ideology data and replace with ideology profile → cluster with raw language background data
 - 3. Cluster raw ideology and background data
- What's another potential didactic context for the Matched Guise modification? Current options: COVID, weather