The Autistic Language Hypothesis



Keynote Speaker: Rachel Cullen

Rachel Cullen (They/Them)

Neuro-queer

Autistic researcher and advocate

 PhD student with Kent University researching Autistic communication

 Consultant at Cullen Consultancy on autistic experience



Guide of presentation:

Introduction and the different approaches to Autistic people and Autistic communication

What is the Autistic Language Hypothesis?

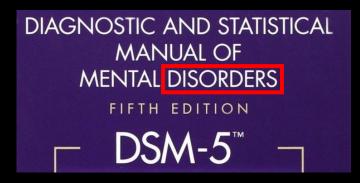
Examples

PhD pilot data

Questions



The medical model approach to Autistic people:



- (1) Deficits in social communication.
- (2) Deficits in social interaction.
- (3) Restricted, repetitive patterns of behaviour, interests, or activities.



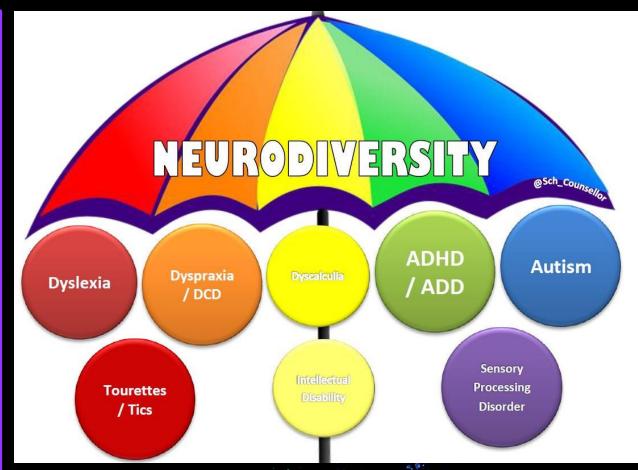
Frames Autistic people as:

- Disordered
- A collection of deficits and impairments
- Needing interventions / treatments to lessen suffering from Autistic symptoms
- Something to be prevented, reduced or cured

The Neurodiversity approach

Frames autistic people as:

- A natural variation in human neurology
- Different not disordered
- A community and shared identity
- Needing acceptance and accommodations to thrive





Taking the Neurodivergent approach

Different not disordered

Social interaction

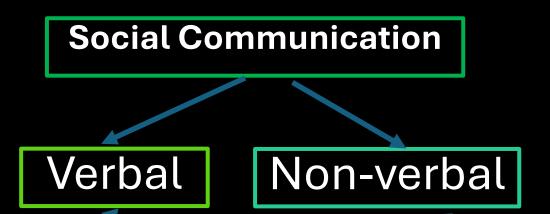
Social Communication Stimming (self stimulation)

Verbal

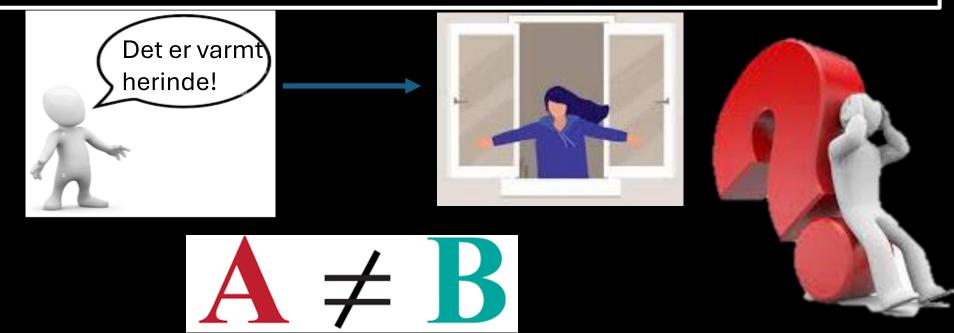


Non-verbal

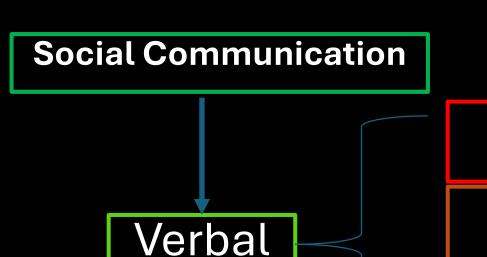




<u>Pragmatics</u> studies the role of <u>both</u> verbal and non-verbal communication and how this contributes to meaning in <u>social contexts</u>



Pragmatics and Autistic people



Difficulty with inferred meaning

Literal interpretation of language

Scripting and Echolalia

Talking about specific topics for extended periods of time

(mini speeches)

Turn Taking

Why Does any of this matter?

The ability to use pragmatic language is fundamental for social communication

Autistic people are currently theorized to lack the ability to use verbal and non-verbal communication appropriately in social contexts.

This perspective
centers non-autistic
social communication
as appropriate and
normal whilst framing
Autistic social
communication as
inappropriate and
abnormal.

Why is this problematic?

Using a <u>socialized norm</u> with which to <u>compare</u>

<u>different groups</u> to has led to human rights

movements...







How does this relate to communication?

Autistic people have been pathologized and 'othered' through centering non-autistic people as 'normal'.

But what if...

Autistic people have an <u>effective but different</u> way of communicating which makes for effective communication with other autistic people.

However, this is <u>not understood or shared by non-autistic</u> people therefore has been deeply misunderstood and considered a *deficit* in communication.

Time for A New Approach



Let's look at the evidence...

The Double Empathy Problem (Milton, 2012)

Crompton, et al, (2020)

Williams, et al, (2021)



How can we explain Autistic social communication outside of a deficit model?

Så hvordan kan vi forklare autistisk social kommunikation uden for en underskudsmodel?

This is what I propose:

The Autistic Language Hypothesis (ALH)

Autistic language hypothesis main components:

(1) Processing of meaning in context occurs at word level instead of sentence level

(2) Meaning is found in linguistics (words) not non-linguistic (body language etc.) features of communication

(3) What isn't said isn't automatically known to autistic people

(1) Processing occurs at word level instead of sentence level

Hello, how was your day?









how



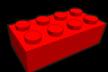












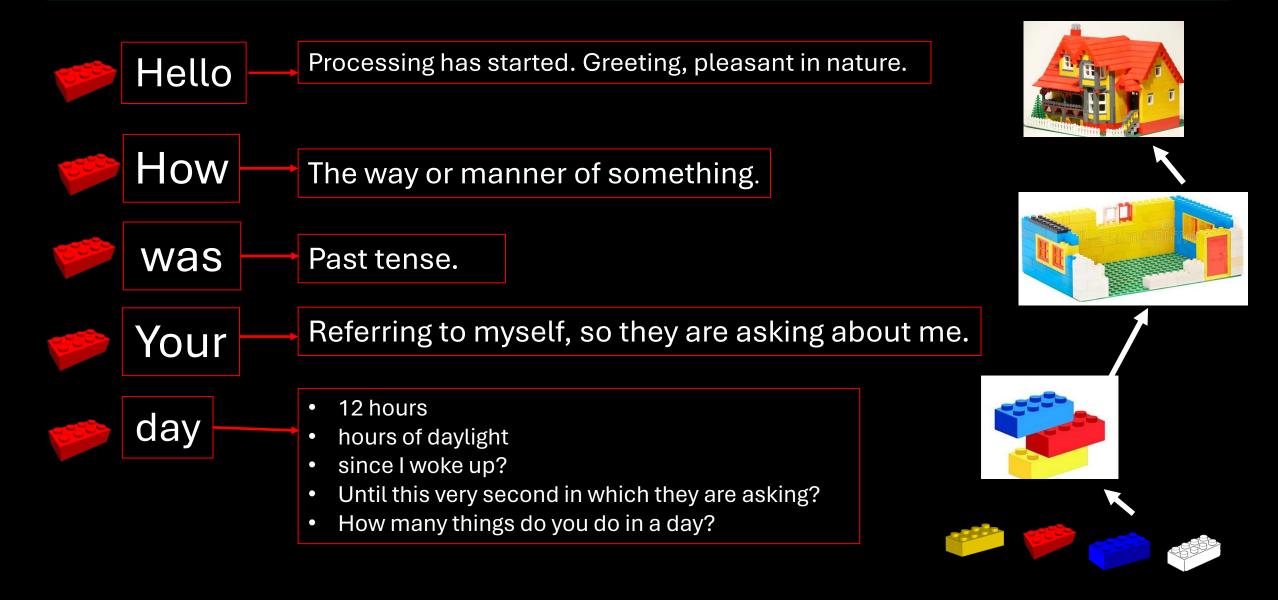








(1) Processing occurs at word level instead of sentence level

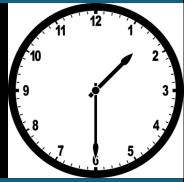


(2) Context is found in linguistic not nonlinguistic features of communication

Hvordan ser kaninen ud?
What does the rabbit look like?



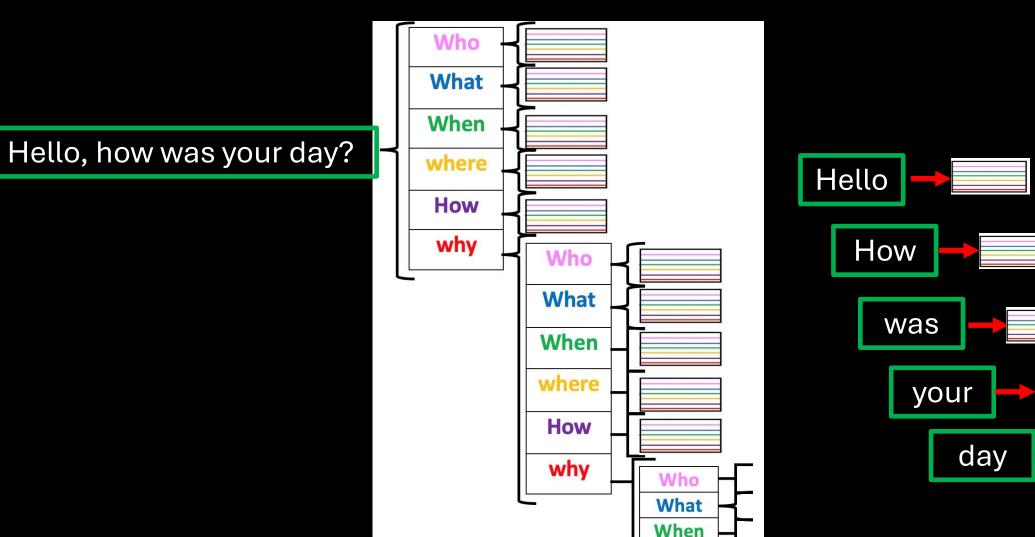
Hvad tid er frokost?
What time is lunch?

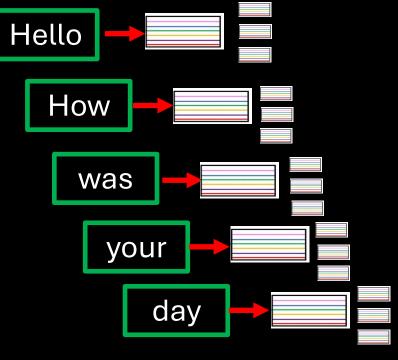


Hvad er dette?
What is this?

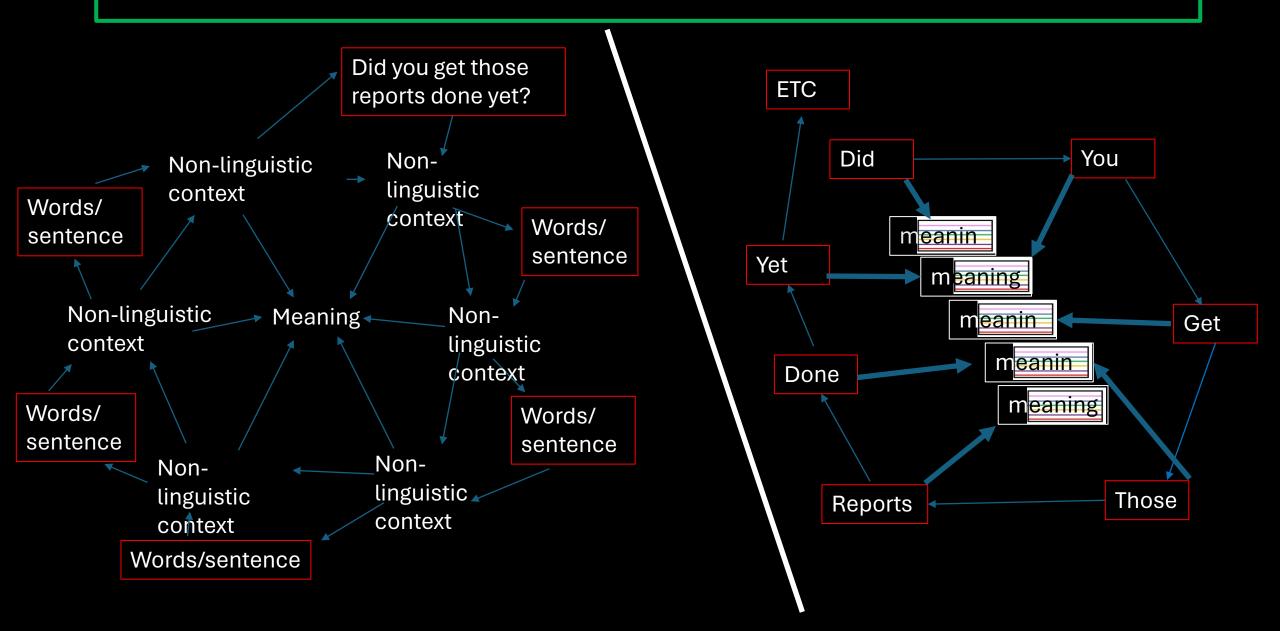


(2) Context is found in linguistic not nonlinguistic features of communication

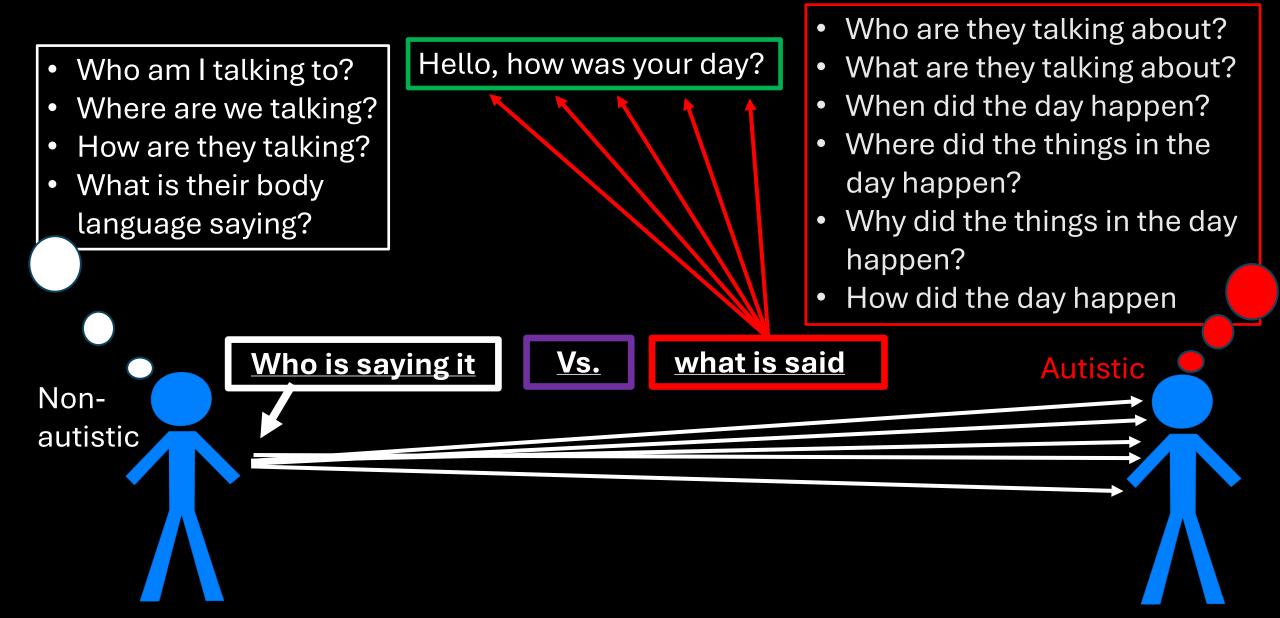




(3) What isn't said isn't known to autistic people



(3) What isn't said isn't known



All Talk...No Action

Does this mean using this hypothesis to get anyone to speak?

ABSOLOUTLEY NOT!

The hypothesis and its purpose is to understand how autistic people communicate at a verbal level

The idea is that it could potentially be used to establish effective two-way communication for non-speaking autistic people

Two-way communication isn't about being verbal!

Its about establishing a neutral communication ground accessible to both parties involved via any means necessary

Autistic language hypothesis: In action

What would the Autistic Language Hypothesis look like in the context of a conversation between two Autistic people?

What would the Autistic Language
Hypothesis look like in the context of a
conversation between an Autistic person
and a non-Autistic person?

How do Autistic people experience a conversation with someone who is also Autistic?

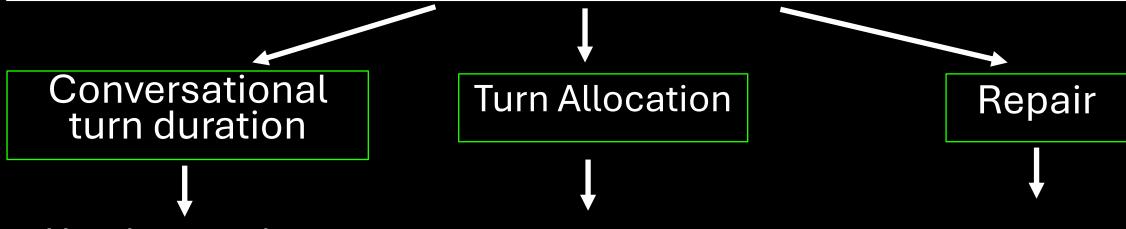
How do Autistic people experience conversation with someone who is not Autistic?

I will be exploring these questions in my PhD research

PhD research

What am I investigating? (Part 1)

Are there differences in structural aspects of conversation between autistic and non-autistic people?



How long each conversation turn lasts

How do people start/stop talking in a conversation

How are mistakes or miscommunication fixed in conversation

PhD research

What am I investigating? (Part 2)

If there are structural conversational differences, **how are these experienced by**:

Autistic people having a conversation with another Autistic person

Autistic people having a conversation with a non-Autistic person

Why is this research important?

Structural aspects of conversation are subconscious, so it is indicative of how we engage in language based on our neurotype.

Autistic people engage with language differently, but we don't know what this looks like in Autistic only interactions.

Real world consequences:

- Perception
- Understanding
- Treatment

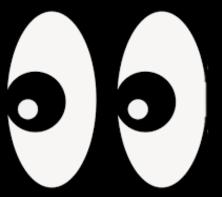
Stigma and discrimination around Autistic communication impacts on ability to self-advocate or be taken seriously by others.

Nothing About Us Without US!!!

With all that being said...

Are you ready for some bonus content no one has ever seen before?





PhD research

What am I investigating? (Part 1)

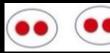
Are there differences in structural aspects of conversation between Autistic and non-Autistic people?

Conversational turn duration

How long each conversation turn lasts

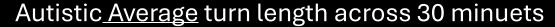
Study information:

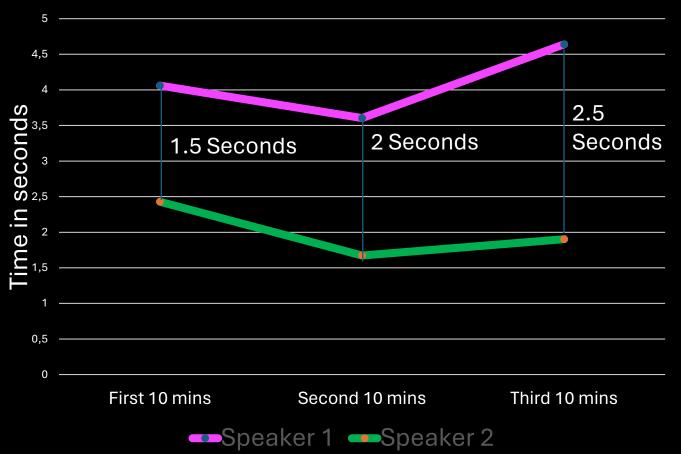
- Pilot study
- 4 female participants (2 Autistic and 2 non-Autistic)
- 2 conversational pairs



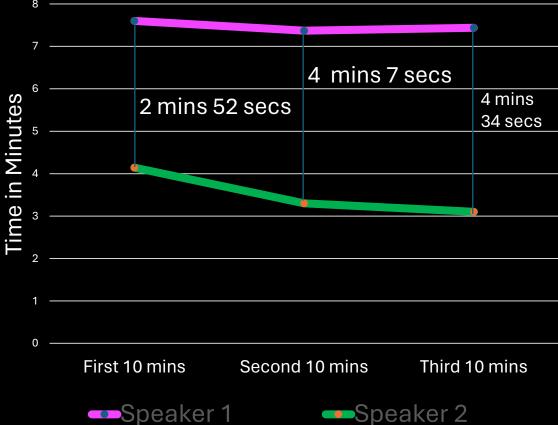
2 x 30 -minute semi structured conversations

SNEAK PEAK: Conversational Turn duration Autistic Pilot data

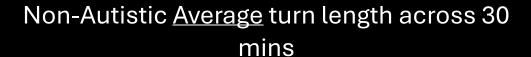




Autistic <u>Total</u> Turn length across 30 minuets

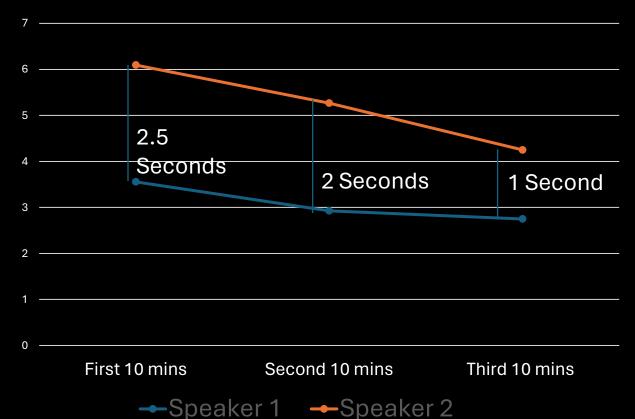


SNEAK PEAK: Conversational Turn duration Non-autistic data

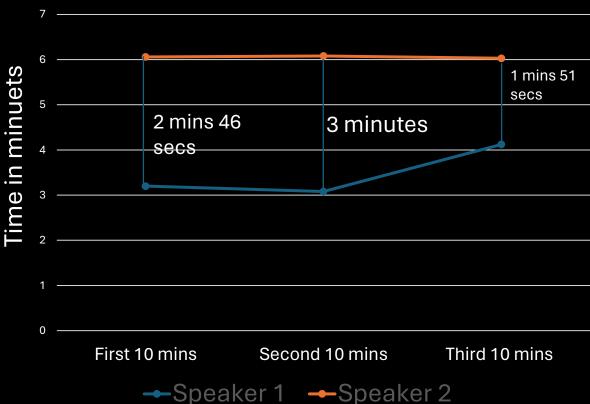


Seconds

ime in



Non-Autistic <u>total Turn</u> length across 30 mins



SNEAK PEAK: Speaker overlap duration

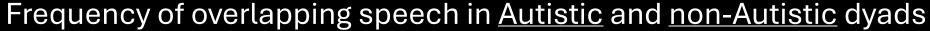
(both autistic and non-autistic data)

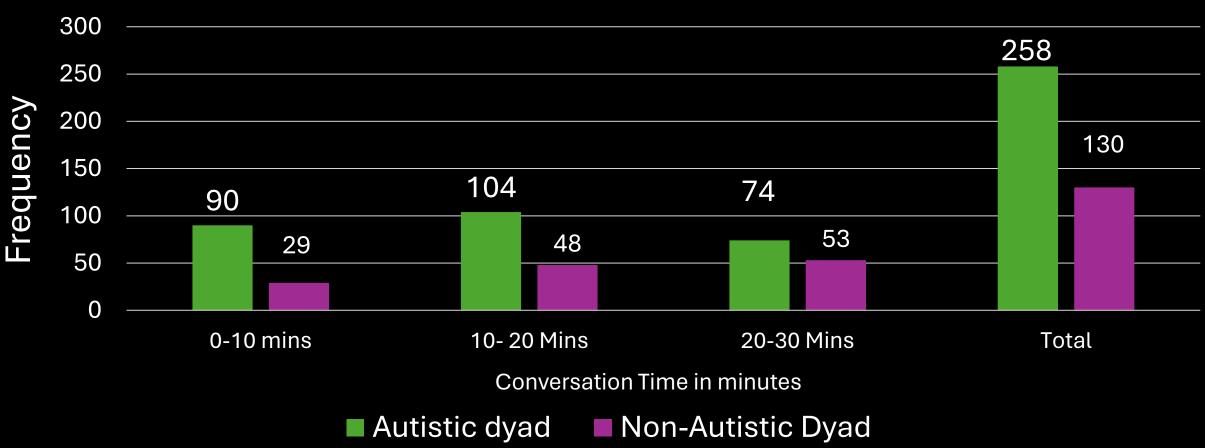
Autistic speaker <u>total</u> overlap duration	
0-10 mins	1 min 8.711 seconds
10-20 mins	1 min 9.594 seconds
20-30 mins	45.379 seconds
Total Across the 30 minuets	3 minuets 3.684 seconds

Non-Autistic speaker <u>total</u> overlap duration		
0-10 mins	15.893 seconds	
10-20 mins	27.327 seconds	
20-30 mins	34.196 seconds	
Total Across the 30 minutes	1 min 17.416 seconds	

How long did both speakers in a conversation talk at the same time

SNEAK PEAK: Speaker overlap Frequency





How many times did speakers in a conversation talk at the same time

PhD research

What am I investigating? (Part 1)

Are there differences in structural aspects of conversation between autistic and non-autistic people?

Turn Allocation

How do people start/stop talking in a conversation

SNEAK PEAK: Turn Allocation

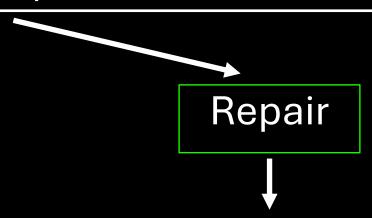
Autistic and Non-autistic Pilot data



PhD research

What am I investigating? (Part 1)

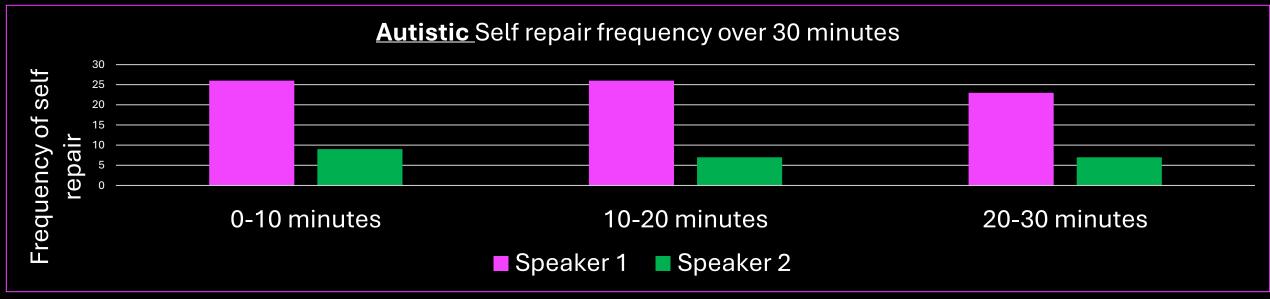
Are there differences in structural aspects of conversation between autistic and non-autistic people?

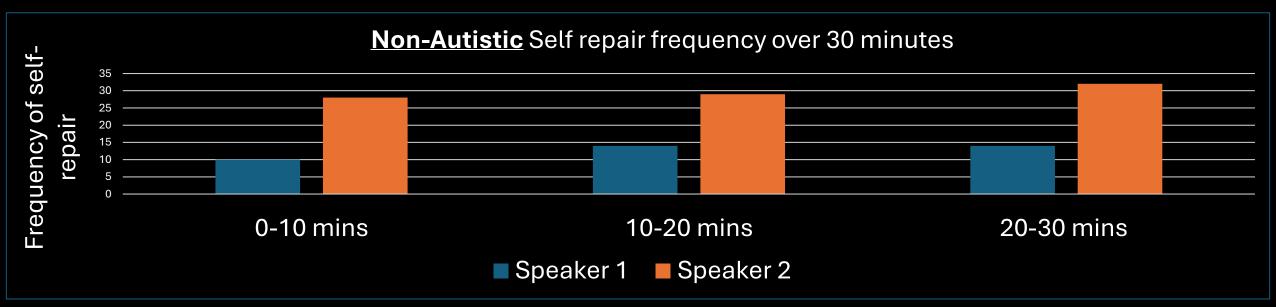


How are mistakes or miscommunication fixed in conversation

SNEAK PEAK: Frequency of Self-Repair

Autistic and Non-autistic Pilot data





To summarize the pilot data so far:

- (1) There appears to be a <u>structural difference</u> in <u>turn duration</u> between the Autistic pair and the non-Autistic pair.
- (2) There appears to be a <u>significant difference</u> in the <u>frequency and duration of overlapped speech</u> between the Autistic pair and the non-Autistic pair.
- (3) There appears to be <u>no structural differences</u> between the autistic pair and the non-autistic pair in relation to <u>turn allocation</u>.
- (4) There appears to be <u>no structural differences</u> in the <u>frequency of self-repair</u> between the Autistic group and the non-Autistic group

Please note: this pilot consisted of 4 participants. This pilot will be replicated with 40 participants and so with a larger sample size the results may differ.

Disclaimers

Still being developed (in very early stages of research)

Only currently applicable to autistic people <u>without</u> intellectual disabilities or other neurodivergence

Only applicable to Native English Speakers



Any Questions/feedback?



Get in touch using social media, my website or email

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