

# Sex Differences in Immature Chimpanzee Play Communication

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INTRODUCTION

METHOD

RESULTS

DISCUSSION

CONCLUSION

# Child Social Cognition Development



Mawa DAFREVILLE

Master of Technology, Cognition, Ergonomy & Impairment 2016-2017



# INTRODUCTION

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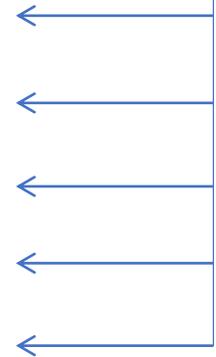
## CHIMPANZEES' PLAY

### SOLITARY PLAY

### OBJECT PLAY

### SOCIAL PLAY

PLAY-MOTHER  
(PSEUDO-) SEXUAL  
ADULT  
OTHER  
ROUGH & TUMBLE  
CHASE & WRESTLE





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## CHIMPANZEES' PLAY

SOLITARY PLAY

OBJECT PLAY

SOCIAL PLAY

PLAY-MOTHER  
(PSEUDO-) SEXUAL

ADULT

OTHER

**ROUGH & TUMBLE**  
CHASE & WRESTLE

*Harlow & Harlow (1965)*

CHASE

**Chase-to-the-top**

WRESTLE

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# Chase-to-the-top



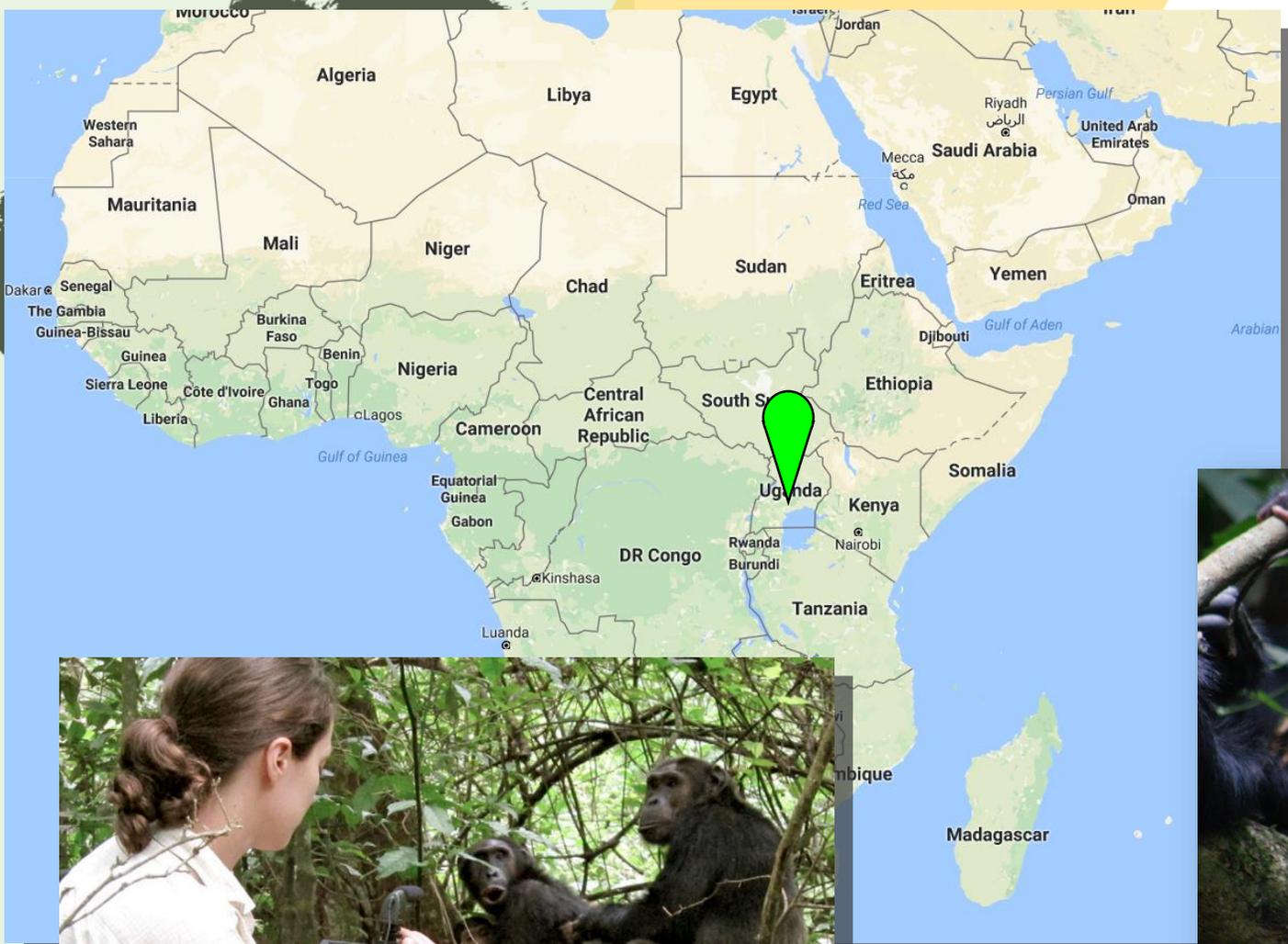


# What aspects of social behaviour, does the immature chimpanzee develop through Play?



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# The Budongo Forest Reserve

The Sonso Chimpanzees community

## Uganda





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# Sample Selection

- **Goal:** Play-start, Play Continue, Play Change, Play Stop
- **Age:** between 1 and 12 years old
- **> 10 gestures** in the data base

Females	Males
Karibu	James
Kox	Klauce
Karo	Kasigwa
Night	Zak
Ramula	Franck
Janet	Zed
Kumi	Pascal
Nora	Zig
Rachel	



# Variables

- **Sex** of Signaller and Recipient
- **Age Ranges:** 1-3 YO, 4-6 YO, 7-9 YO, 10-12 YO
- **Relationship:** Family (mother/sibling) or Non family
- **Age difference** between partners (in years)



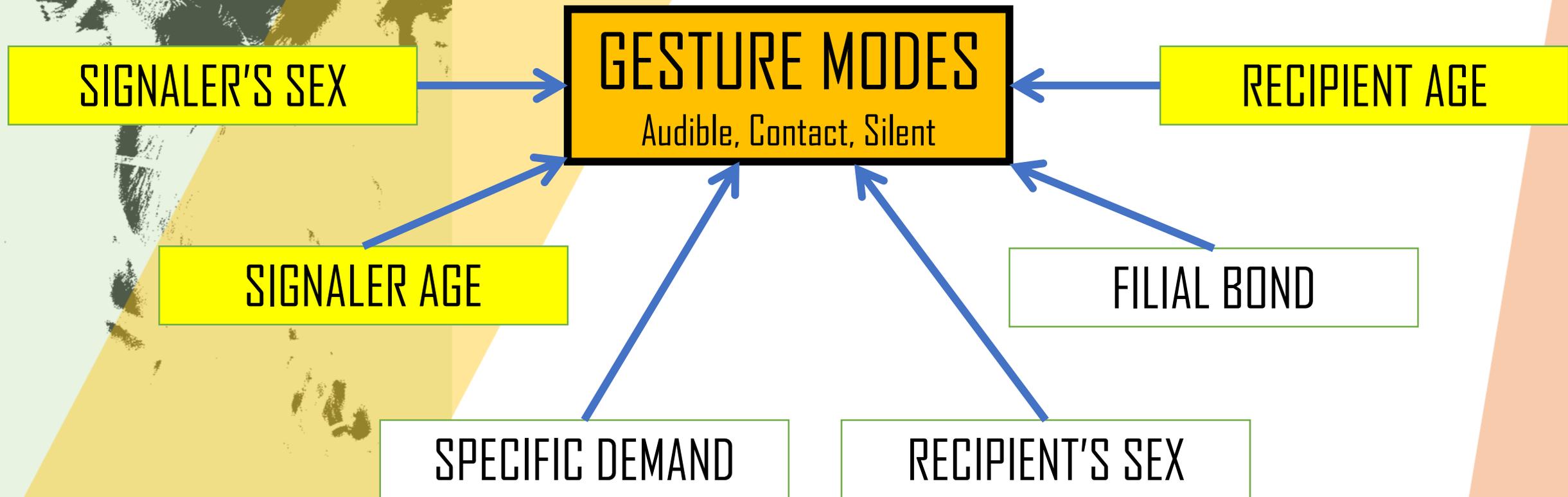
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# QUESTIONS

## GESTURE MODES

Audible, Contact, Silent

# QUESTIONS





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**SIGNALER'S SEX**

SIGNALER AGE

**GESTURES MODES**  
Audible, Contact, Silent

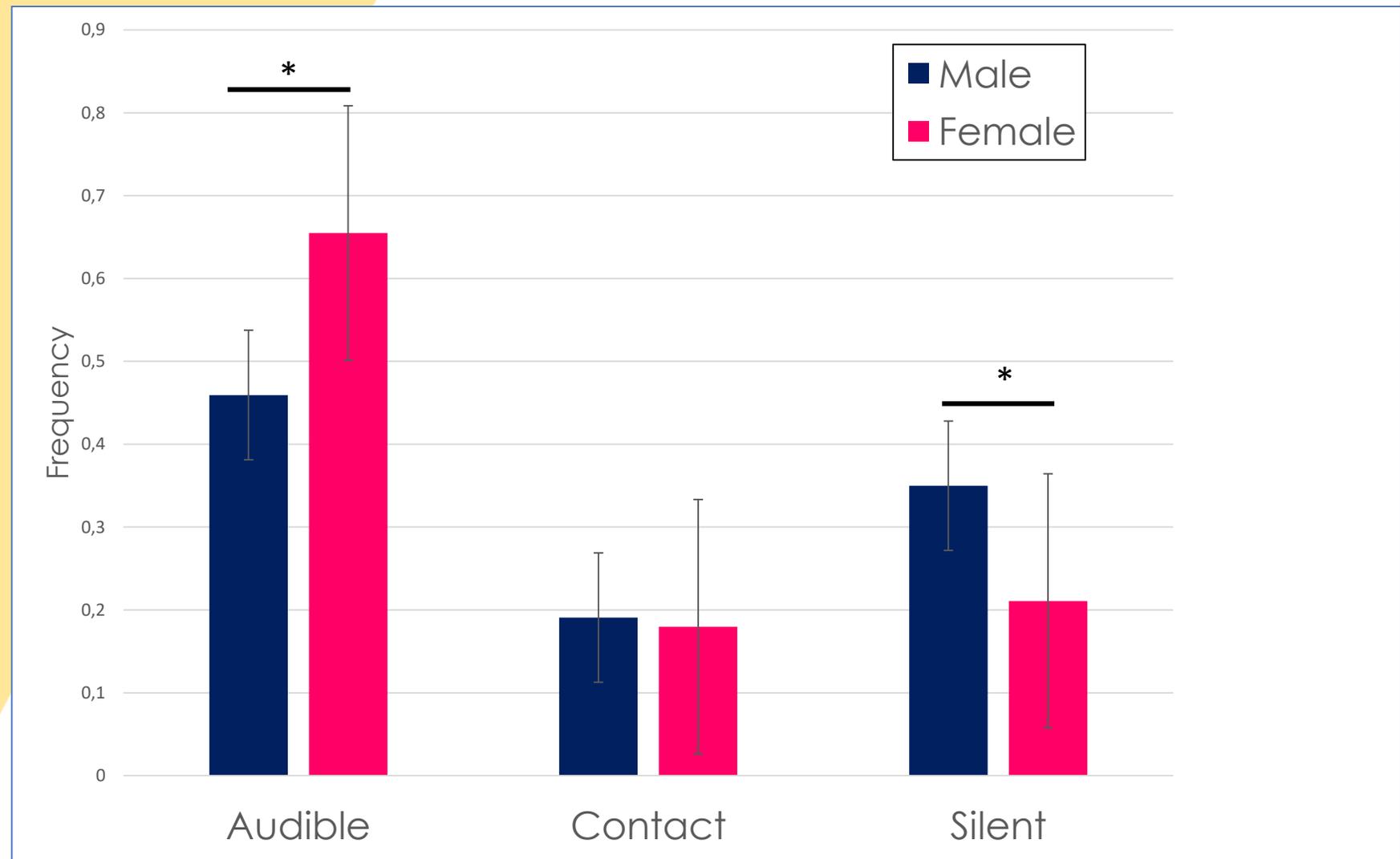
SPECIFIC DEMAND

RECIPIENT AGE

FILIAL BOND

RECIPIENT'S SEX

# Does the sex of the signaler impact on the mode of gesture used in the Play context?





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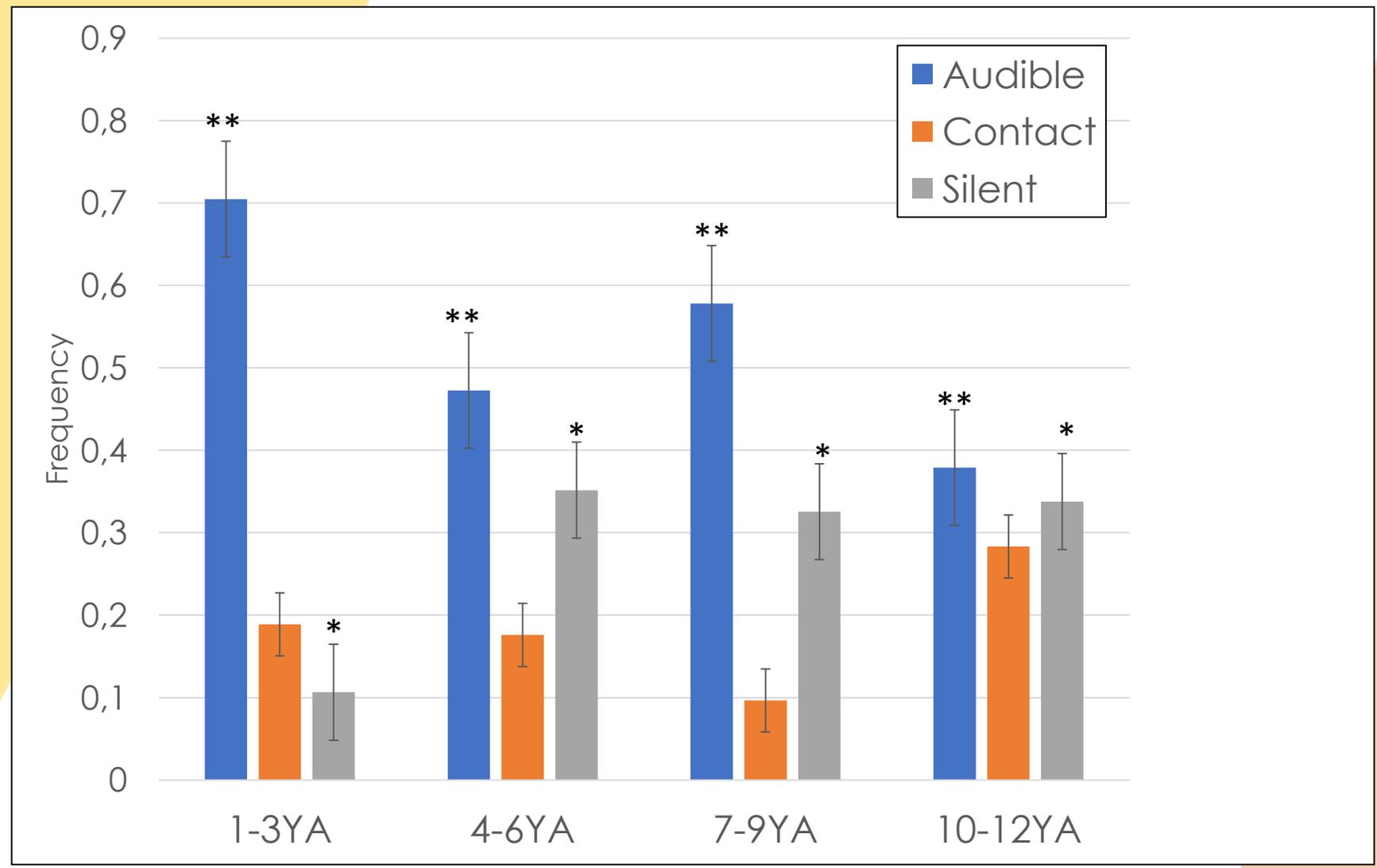
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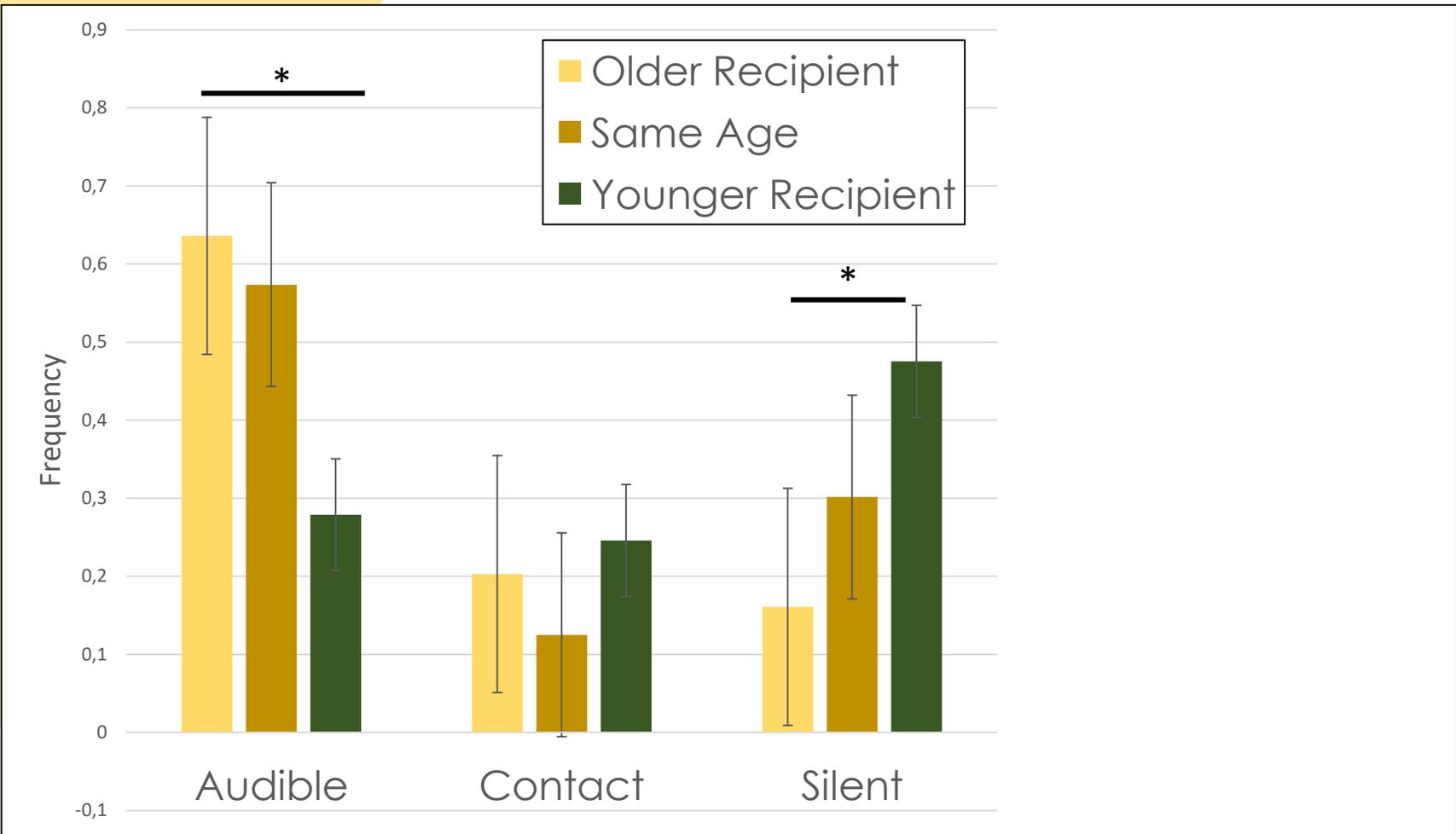
SPECIFIC DEMAND

**RECIPIENT AGE**

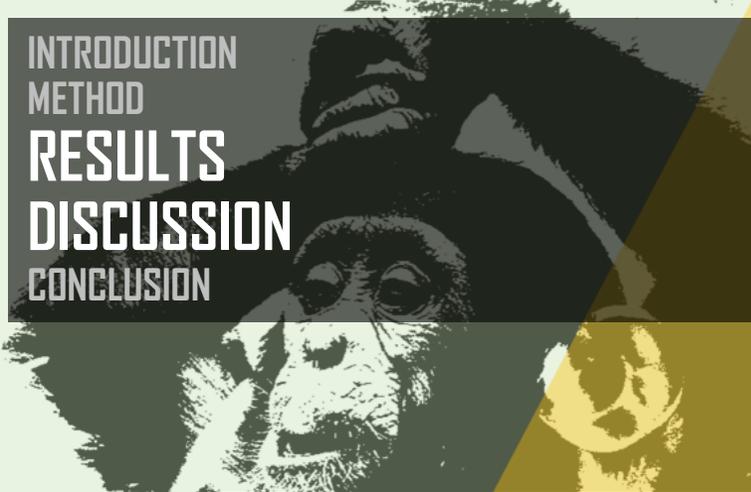
FILIAL BOND

RECIPIENT'S SEX

# Does the age of the recipient have an impact on the mode of gestures used to report it?



Older Recipient : Recipient age 2 years older than signaler  
 Same Age : Recipient age with a difference of more or less 2 years than signaler  
 Younger Recipient : Recipient age 2 years younger than signaler

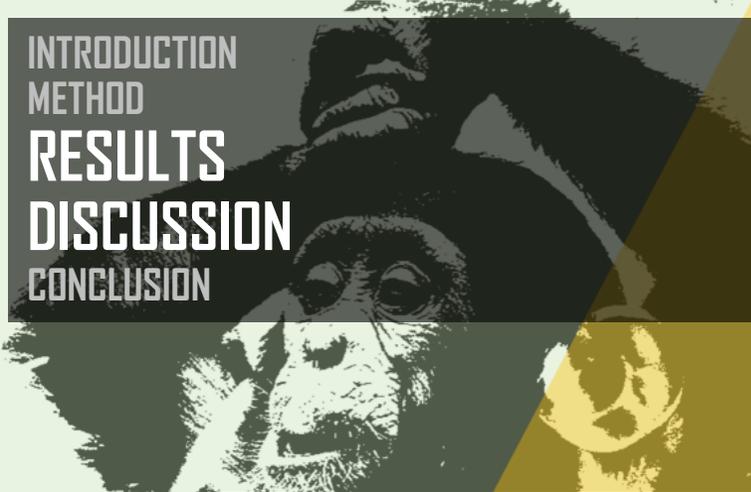


**SIGNALER'S SEX**

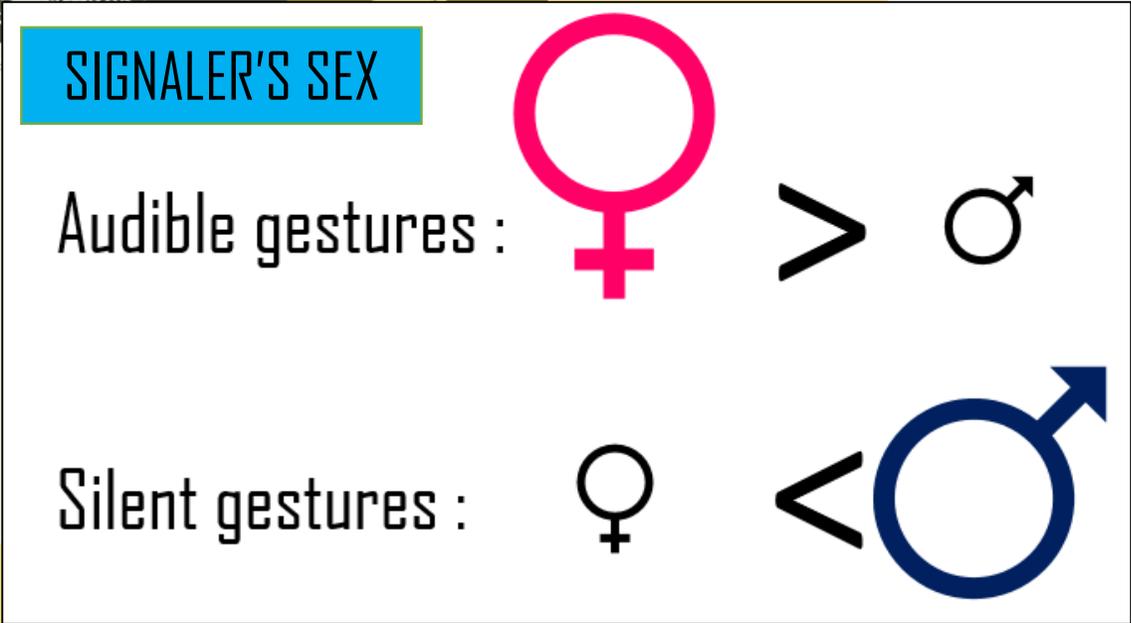
Audible gestures : ♀ > ♂

Silent gestures : ♀ < ♂

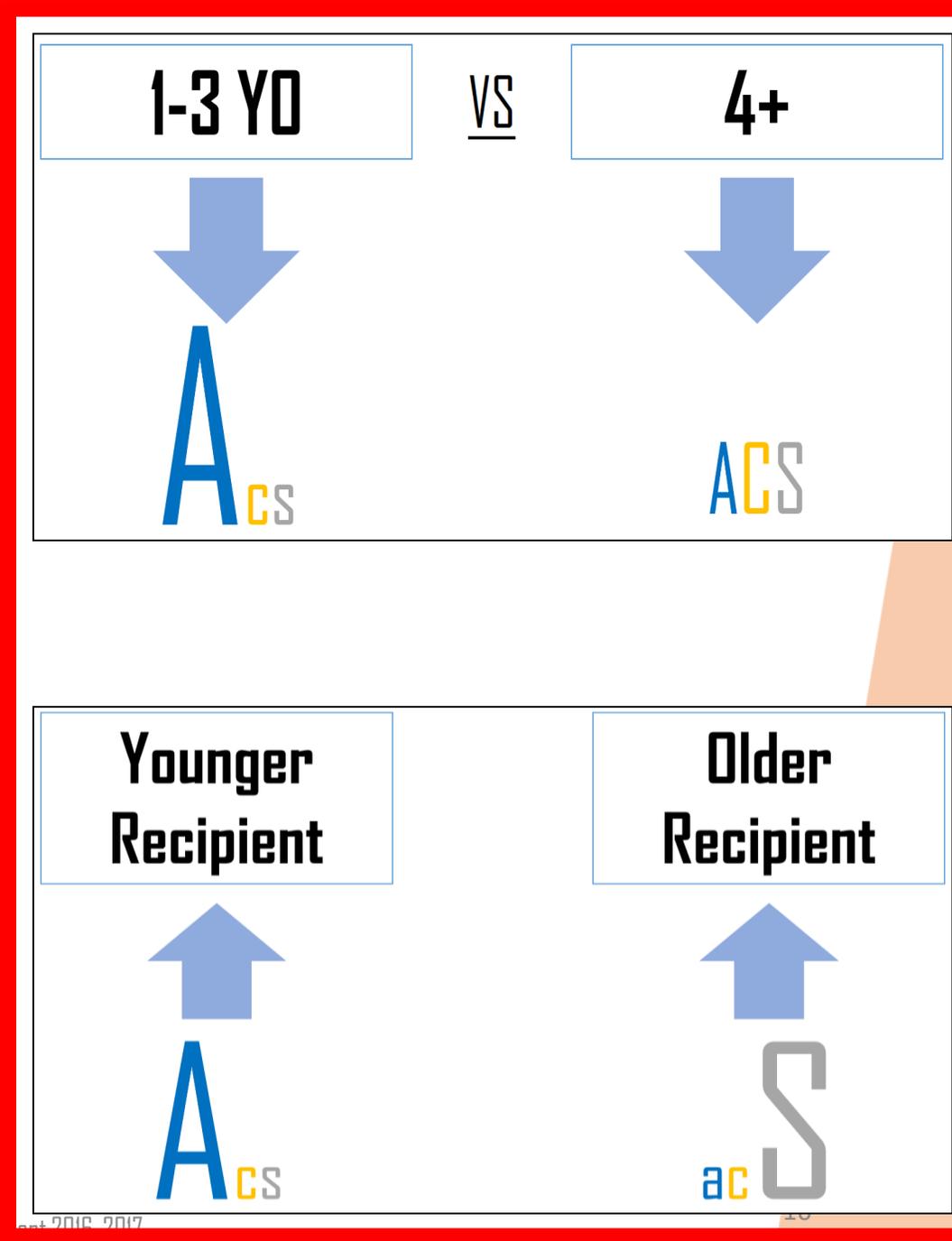
*Different types of Play?  
Avoid Threat?*



SIGNALER AGE



RECIPIENT AGE



SIGNALER'S SEX

SIGNALER AGE

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SPECIFIC DEMAND

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Audible gestures



Silent gestures

# FLEXIBILITY

Variation of gesture modes used according to the context and the recipient

Crucial part in the social cognition development

**Thank you  
for your  
attention**

