Age Changes in Agentive Perception to the Day Care Center Situation

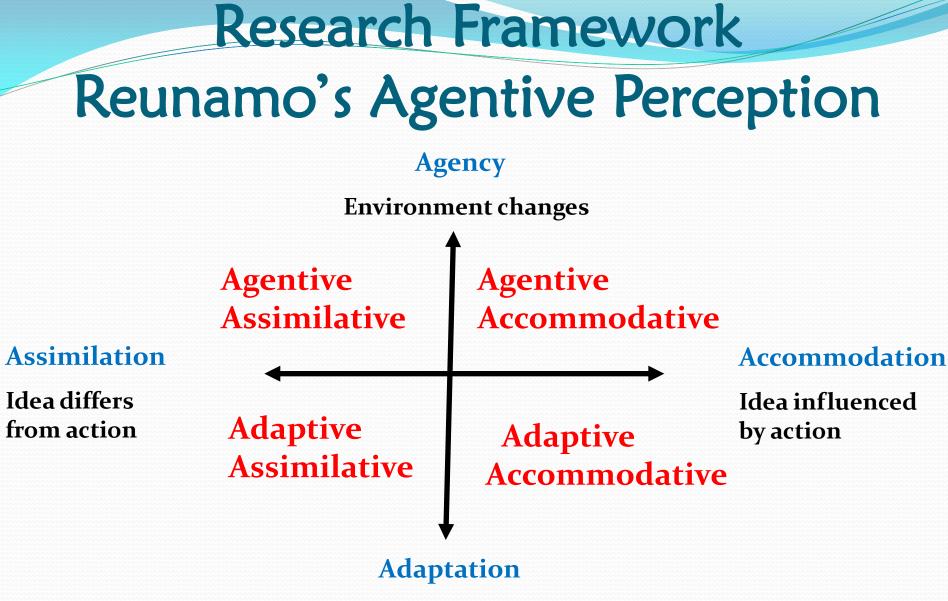
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No change in environment

Research Questions

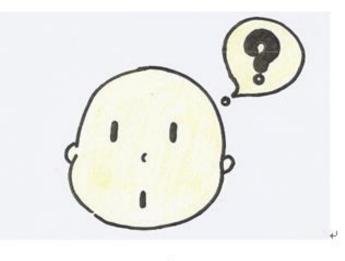
- **1.** What are the age differences in agentive perception?
- 2. How do children in Taiwan and Finland response differ in the development of agentive perception?

Research Method

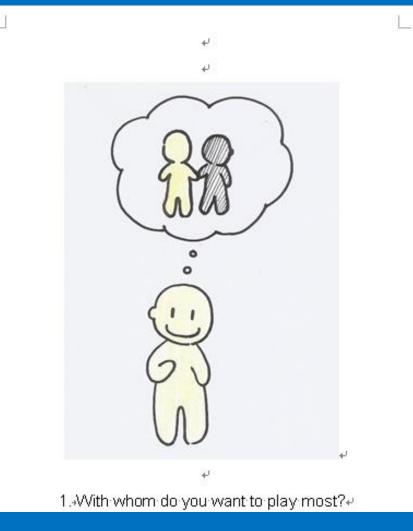
- 366 Taiwanese and 698 Finnish children
- Age 3-6
- Interview with 16 items about situations in day care setting
- Items concern adult-child or child-child interaction

Interview Story (English Version)

Tell·your·story. What·would·I·do?.

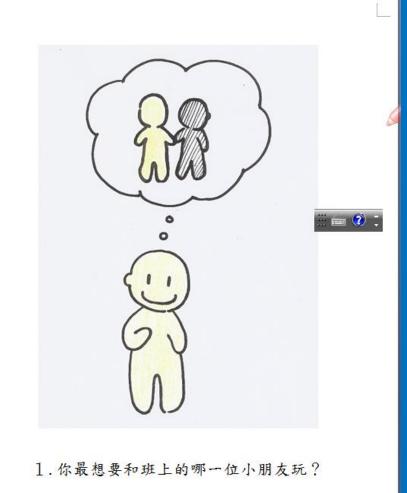


By <u>Jyrki</u> Reunamo_{*} Pictures: <u>Tzung</u> Ying Li* Ian 2010*



Interview Story (Chinese Version)





Interview Items (Adult-Child Interaction)

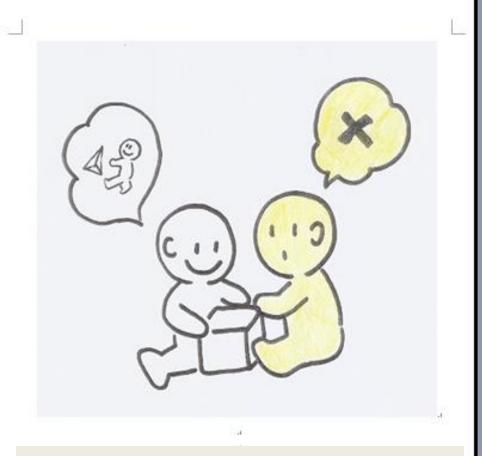


10. A teacher comes to stop your play, What do you do then?

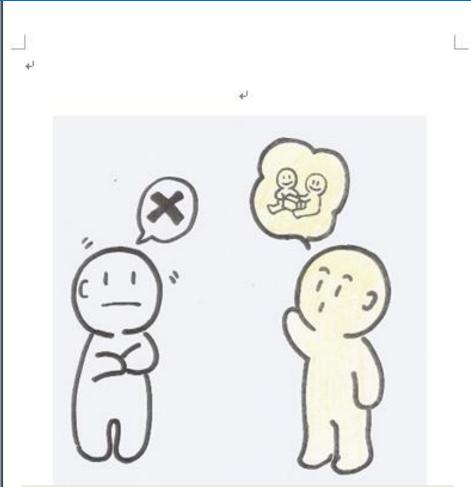


11. What if you don't like the activity arranged by the teacher? What do you do then?

Interview Items (Child-Child Interaction)



6. Let's think you are playing with someone and your friend wants to change play.What do you do?



7. What if a friend will not play with you? What do you do?

Data Coding

- Each response from each child was individually coded into the 4 categories suggested by Reunamo
- Sometimes the child's meaning was not clear, and those responses were coded "uncertain"
- The 3 year olds gave the most "uncertain" responses, and there were very few unclear responses for the older children
- For the sake of simplicity, the "uncertain" responses are not included in the figures presented today

You are playing a game with somebody and the other does not follow the rules. What do you do then?

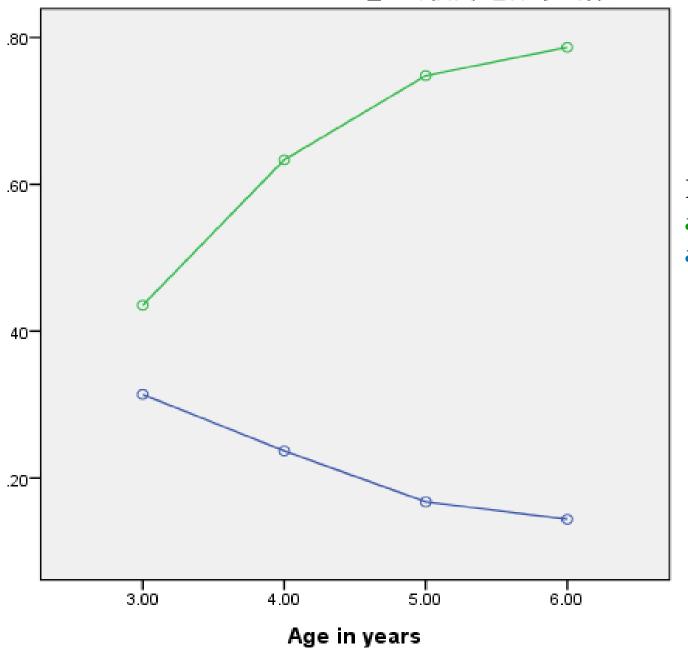
 Agentive-Assimilative I play with somebody else. I play with the one who follows rules. We quit playing. I can take a friend who knows the rules. I stop the whole game. It has happened in the yard, I don't take her with me. I take a friend who wants to play with me. 	Changes the environment Agency	Agentive-Accommodative • I tell him/her the rules. • I tell a teacher. • I say to him/her to follow the rules. • I tell him. • I stop them. • I ask the teacher to come over, we obey the teacher. • I ask the teacher.	
No change in idea Assimilation			Changes idea Accommodation
Adaptive-Assimilative •I play alone. •No. I don't know. I go away. •I can not play with him. •I go into rules, I leave the game. •Then I don't play with her. •I go to another room. •I play with Johnny. •I can play ice hockey.	Environment Adaptation	 Adaptive-Accommodative I do what he says (the one who does not follow the rules). We can play without rules. We play another way, I don't care. Then I just play. I play along, we don't have to follow the rules. I play with him/her. Then I play, first one game and then another. 	

Results 1

First

We look at the data in terms of Piaget's view

- **1.** Assimilation vs Accommodation
- 2. Year 3-6 Age Trends
- 3. Taiwan vs Finland

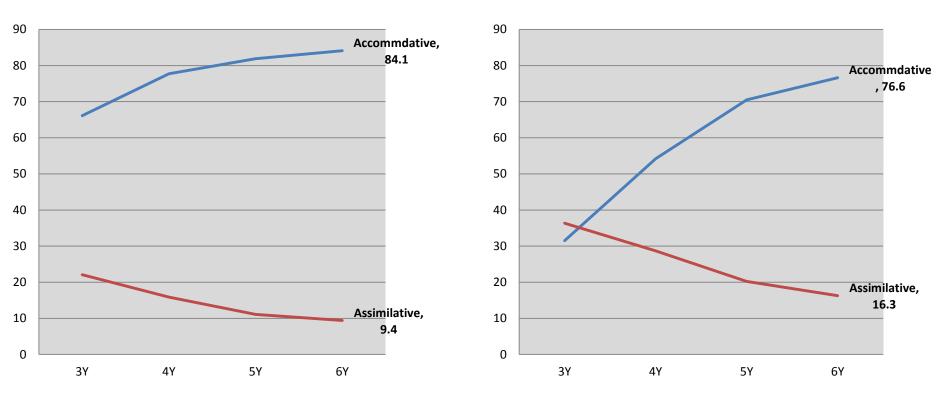


Piaget View accommodative assimilative

As children grow older they become more accommodative

Taiwan

Finland



1.In general, Taiwan children's responses are more accommodative

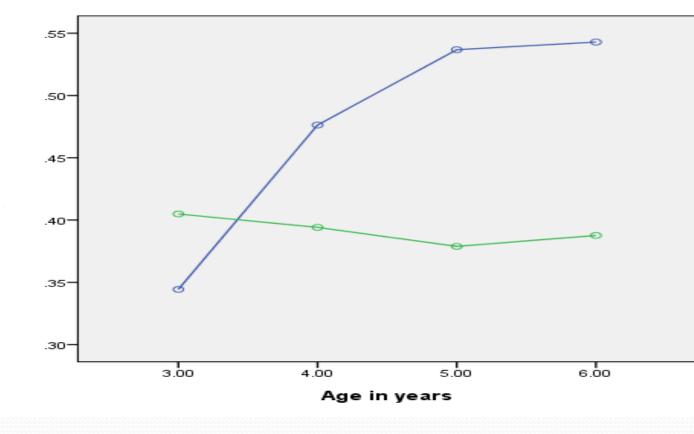
2.In both countries, something is happening between age 3-43.Finnish children seem to make a large shift towards accommodative responses

Results 2

Second

We look at the data in terms of Vygotsky's view

- **1**. Adaptation vs Agency
- 2. Year 3-7 Age Trends
- **3.** Taiwan vs Finland



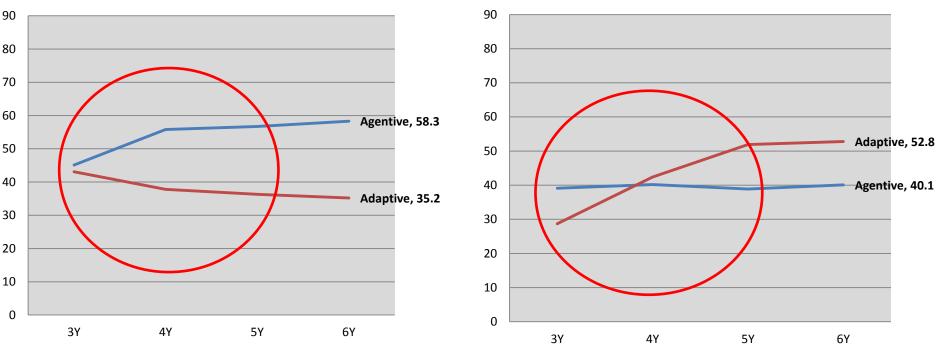
Vygotsky View agentive adaptive

At Age 3, children make more adaptive responses

After Age 3, children gradually become more agentive

Taiwan

Finland



Taiwan

1.Between 3 and 4, children's adaptive responses drop, and agentive response rise most significantly.

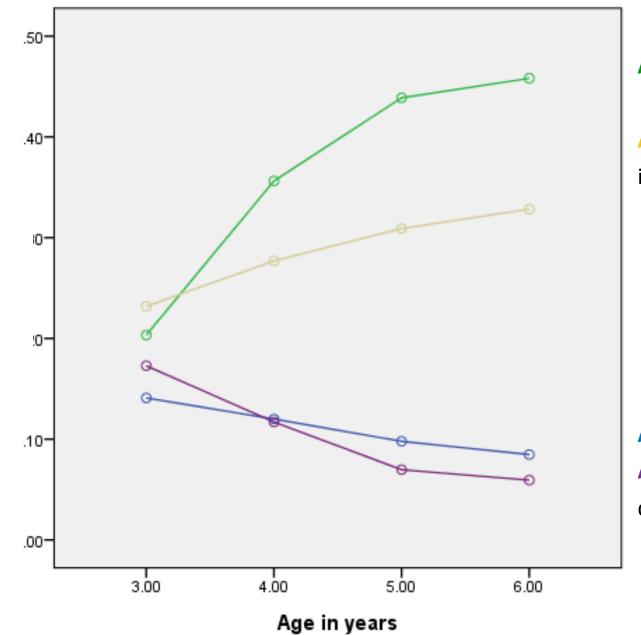
2.After age 4, the trend continues.

Finland

3. Finnish children generally give more adaptive responses than Taiwan children.

4. The proportion of adaptive responses remain stable with age

5. The rise in agency is more significant between age 3-5.

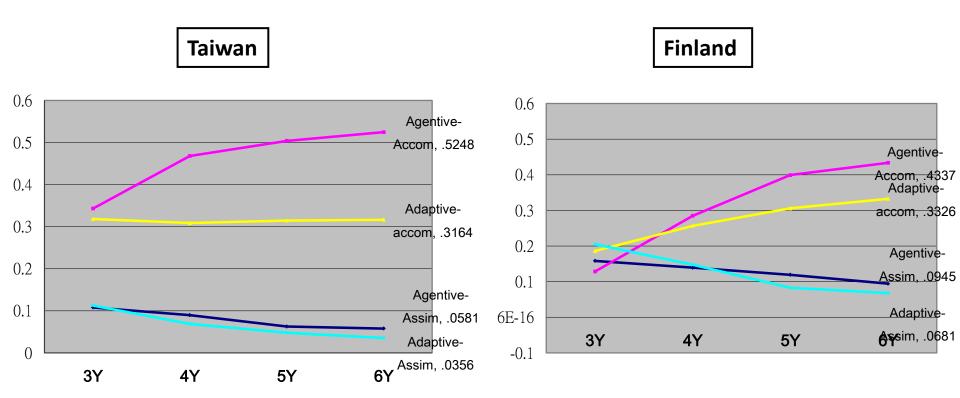


Reunamo View

Agentive-Accom.

Adaptive-Accom increase with age

Agentive-Assim Adaptive-Assim decrease with age



- 1. Agentive-Accom Finland responses go from the lowest proportion at age 3, and makes a steep rise, but does not reach as high as Taiwan. Taiwan start higher and reach higher.
- 2. Adaptive-Accom Taiwan remains around the same. Finland start lower and reach about the same level as Taiwan
- 3. Assimilative responses: Taiwan starts lower than Finland and go even lower than Finland.
- 4. Finland data shows an age x category interaction.

Discussion

For theory

- 1.Finnish and Taiwanese children interact with the environment in similar ways. They recognize that they can have an effect on the environment, and may negotiate with others in that environment.
- 2. Age 4 appears to be an important turning point in the development of agency. We see changes in the children's responses in both countries. In Taiwan, children begin to stabilize in agentive responses starting at about 4 years.

3. There are differences in developmental trends between children in the two countries. Apart from the effects of smaller sample size in Taiwan, the role of cultural effects is worthy of further exploration.

Practical Applications

- Teachers may review their curriculum and individualize their teaching according to children's agentive perception; and also acknowledge that children may participate in changing their environment.
- 2. Teachers should understand developmental trends in agentive perception and increase opportunities for discussion, communication, and negotiation with children.

Suggestions for Further Research

- Increase representativeness of sample a stratified sampling design would be most effective in including different kinds of day care centres.
- 2. Look at the relationship between children's agentive behaviour, teachers' assessment, and social interaction between peers, etc. in relation to the interview responses in the current study.
- 3. Examine the effects of historical, social and cultural factors on the development of agency.

4. Explore the effects of agentive development on learning -- Further explore the relationship between agentive development and children's learning experiences in day care, their language skills, their socialization. In addition, longitudinal studies would strengthen our knowledge of these relationships.

Thank You!

For further information

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