

Day 1: Monday, October 17

Morning Session

9:00 - 9:20 - Intro + Goals

9:20 - 10:05 - Tutorial on Developmental Learning - Michael Frank - Word learning as a case study for children's learning abilities

10:05 - 10:30 - Discussion

10:30 - 11:00 - Coffee Break

11:00 - 11:45 - Tutorial on Machine Learning - Andrew Zisserman + Jim Rehg

11:45 - 12:15 - Discussion

12:15 - 1:00 - Lunch

Afternoon Session

1:00 - 1:20 - **Felix Hill** - How language can help machines to acquire general intelligence

1:20 - 1:40 - **Alejandrina Cristia** - Using machine learning in early language acquisition research: Examples from long-form audio-recordings

1:40 - 2:00 - **Michael Frank** - Predictive models of early language learning

2:00 - 2:20 - **Pierre-Yves Oudeyer** - Language and Culture Internalization for Autotelic Human-Like AI

2:20 - 2:40 - **Emmanuel Dupoux** - Simulating early language acquisition using self-supervised learning

2:40 - 3:00 - Discussion

3:00 - 3:30 - Tea break

3:30 - 3:50 - **Daniel Swingley** - Rethinking the developmental pathway of early infant language learning

3:50 - 4:10 - **Rhodri Cusack** - Can Machine Learning Inform the Science of Infant Development, and Vice-Versa?

4:10 - 4:30 - Abdellah Fourtassi - ML as a tool” vs. “ML as a model” for the study of child development in the wild

4:30 - 4:50 - Jitendra Malik (Remote) - Learning Vision for Walking

4:50 - 5:10 - Discussion

5:10 - 6:00 - Break before dinner

6:00 - Dinner

Day 2: Tuesday, October 18

Morning Session

9:00 - 10:30 - Working Group Time

10:30 - 11:00 - Coffee Break

11:00 - 12:15 - Working Group Time

12:15 - 1:00 - Lunch

Afternoon Session

1:00 - 1:20 - Andrew Zisserman (Remote) - Audio-visual self-supervised learning

1:20 - 1:40 - Linda Smith (Remote) - Why self-generated behavior has more radical consequences that you might originally think

1:40 - 2:00 - Jim Rehg - Connecting 3D Shape Learning and Object Categorization

2:00 - 2:20 - Judy Hoffman - The Impact of Dataset Bias on Model Learning

2:20 - 2:40 - Olivier Sigaud - Towards Teachable Autonomous Agents: How can developmental psychology help?

2:40 - 3:00 - Discussion

3:00 - 3:30 - Tea break

3:30 - 3:50 - Casey Lew-Williams - The First 1,000 Days Project

3:50 - 4:10 - Uri Hasson - The First 1,000 Days Project

4:10 - 4:30 - Maithilee Kunda - Studying infant-like visual category generalization using the Toybox dataset

4:30 - 4:50 - Marc'Aurelio Ranzato - The Never-Ending Visual classification Stream (NEVIS) 1.0

4:50 - 5:10 - Atsushi Nakazawa - Does affective communication increase the relation between children with ASD and their mothers?

5:10 - 5:30 - Discussion

5:30 - 6:00 - Break before dinner

6:00 - Dinner

Day 3: Wednesday, October 19

Morning Session

9:00 - 10:00 - Working Group Time

10:00 - 10:30 - Coffee Break

10:30 - 11:50 - Working Group Report Back

11:50 - 12:15 - Discussion

12:15 - 1:00 - Lunch

Afternoon Session

1:00 - 5:00 - Social Outing

6:00 - Dinner

Day 4: Thursday, October 20

Morning Session

9:00 - 9:20 - Sho Tsuji (Remote) - SCALa: A blueprint for computational models of language acquisition in social context

9:20 - 9:40 - Eon-Suk Ko - Enhancement of cues and the oddball effect in child-directed speech

9:40 - 10:00 - Anne Warlaumont - Temporal patterns in vocal even sequences produced by human infants and computational vocal learning models

10:00 - 10:20 - Discussion

10:20 - 11:00 - Coffee Break

11:00 - 11:20 - Hana D'Souza - Towards embracing complexity to understand atypical development: the case of Down syndrome

11:20 - 11:40 - Chen Yu - Magnifying Time and Space: New Ways of Studying Early Development and Learning from the Infant's Point of View

11:40 - 12:00 - Rebecca Saxe - Human infants' brains are specialized for social functions

12:00 - 12:20 - Discussion

12:20 - 1:00 - Lunch

Afternoon Session

1:00 - 1:20 - Celeste Kidd - Truth, lies, and misinformation during cognitive development

1:20 - 1:40 - Gert Westermann - Curiosity in infants and computational models

1:40 - 2:00 - 4 talks - Post/Pre Doctoral Session 1

2:00 - 2:10 - Short Q&A

2:10 - 2:30 - 4 talks - Post/Pre Doctoral Session 2

2:30 - 2:40 - Short Q&A

2:40 - 3:00 - Discussion

3:00 - 3:30 - Tea break

3:30 - 3:50 - Ingmar Visser - Visual attention development in infancy

3:50 - 4:10 - David Crandall

4:10-4:30 - Kristen Grauman

4:30 - 4:50 - Discussion

4:50 - 6:00 - Working Group Time

6:00 - Dinner

Day 5: Friday, October 21

Morning Session

9:00 - 10:30 - Report back on conclusions from each working group

10:30 - 11:00 - Coffee Break

11:00 - 12:15 - Discussion about the next steps for this community

12:15 - 1:00 - Lunch

1:00 - Departure