

PSYCHOLOGY 456  
**Theory of Mind**

Fall 2018  
Tu: 10:00–11:30; Th: 8:30–10:00  
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**Learning Objectives**

- Define “theory of mind” in terms of its key constructs and distinguish theory of mind from other forms of social intelligence
  - Identify the key ways in which theory of mind understandings are measured in young children, and how performance on these measurements change with development
  - Catalog different factors that can affect theory of mind understanding as it develops over the preschool years.
  - Critically evaluate different theories for theory of mind development at different ages, and assess these theories with respect to the extant literature
  - Assess the hypothesis that theory of mind understandings are important for the development and emotional health of children and adolescents
  - The role of theory of mind concepts, and understanding of their development and relation with social interaction in the development of internal and external representations of childhood and adulthood
- Theory of mind is the early understanding that people do things because of their mental states such as intentions, emotions, and desires. In other words, “theory of mind” is the ability to understand the mental states of others and how these mental states affect their behavior. Theoretical constructs and levels to understand the

explain what a person has done, and predict what that person will do in the future. Some researchers and theorists use the term “folk psychology” to describe theory of mind. It is our everyday, non-scientific, understanding of the basic psychological mechanisms that cause everyday behaviour.

For some time now, developmental psychologists have been studying the developmental timetable and trajectory of young children’s theory of mind. Hundreds of studies have been published investigating young children’s understanding of psychological states and how they affect behaviour. This literature is diverse yet coherent, and arguably we know more about this one particular aspect of human cognitive development than any other. Because of its richness, researchers have used theory of mind as a window on children’s cognitive development more generally; as the basic phenomena that constitute theory of mind reasoning are gradually uncovered, so too are fundamental insights into the very mechanisms by which development takes place. Clinicians have also found that the theory of mind framework is a useful one for understanding disorders that are particularly associated with social-cognitive difficulties. Thus, theory of mind development is not only an interesting topic of study, it is also of practical importance.

## **General Structure of the Course**

The course will be divided into two modules, each comprising 6 weeks of the class.

### **Module I: Weeks 1–6**

In the first module, we will learn how researchers conceptualize theory of mind, and the developmental trajectory of theory of mind concepts in young children. In each case, we will gain exposure to important general issues that face developmental psychologists, such problems of interpreting children’s behaviour in experimental tasks, characterizing theoretical mechanisms of development, and understanding the interplay between biology and experience in shaping development.

For each class during this module, we will have a reading or two that students will be expected to have read in advance and composed a short, informal “reaction” thought for (see attached). I will make a brief presentation on the article, highlighting what I think are key points. After about 20 minutes, we will then turn to a discussion phase. For the first 30 minutes of the discussion phase, students will spend time in groups discussing the questions and “reactions” that each student brought along. For the second 30 minutes, I will ask a spokesperson for the group (a different one each day) to share back with the class something that emerged from the discussion as particularly interesting, puzzling, or noteworthy.

At the end of week 4, I will assign four essay questions related to the material that is covered in the first module. Responses to these essay questions will be due on Thursday, Oct 18.

## **Module II**

In the second module, we will build on the basics acquired in the first module to explore how a theory of mind perspective can help us to understand children's developing abilities to negotiate a host of everyday social challenges.

To achieve these goals, students will work throughout the module in a group. Each group will tackle one of six challenges and be responsible for three main goals — a) conceptualizing through how a theory of mind perspective on the challenge might be useful, b) finding and reviewing the extant literature that may speak to whether theory of mind skills are related to the challenge, and c) identifying future directions for research on the topic.

The ultimate product for the group will be to co-author a review article like those that are published in a general psychology journal called Trends in Cognitive Sciences. There are many examples of what these kinds of papers can look like and I will go over one in detail for the class. Typically, TiCS papers comprise

make presentations to communicate the results of their research. This presentation should remind the class of the introductory material that was presented in week 9 and then delve more deeply into the research that they have done. As with the first presentations, the purpose is to encourage groups to make progress toward their goals while communicating material to the rest of the students in the course. Presentations can be up to 30 minutes long each (inclusive of discussion time), and we will leave some time at the end for the rest of the students in the course to evaluate what they have learned.

Each group's TiCS paper will be due on Tuesday Dec 4, which is the first Tuesday after classes officially end. Only one paper will be submitted along with a *detailed description* of the work that each person in the group did, agreed upon and attested by each member of the group.

## Late Policy

Late work will be accepted but its mark will be discounted by 20% for each 24 hour period it is late. Exceptions to this policy are if serious extenuating circumstances prevented you from completing the work, or if we have a prearranged agreement. Please do not hesitate to communicate with me regarding any difficulties you may be having completing the course material to your standards on time.

## Grading Scheme

### Assessment for Module 1

- 40% — Reading response papers
- 15% — Discussion participation
- 45% — Essay Questions

### Assessment for Module 2

- 20% — Conscientiousness, leadership, and cooperation in the group setting as rated by the other members of your group (and apparent to me)
- 25% — Quality of unique contribution to the presentations
- 35% — Quality of unique contribution to the review paper
- 20% — Overall integrated quality of presentation and the TiCS paper.

## Grading Method

All components of this course will receive numerical percentage marks. The final grade you receive for the course will be derived by converting your numerical course average to a letter grade according to Queen's Official Grade Conversion Scale:

Grade	Range
A+	90–100
A	85–89
A-	80–84
A+	77–89
B	73–76
B-	70–72
C+	67–69
C	63–66
C-	60–62
D+	57–59
D	53–56
D-	50–52
F	<50

## Academic Integrity

Student Wellness Services (SWS) and register as early as possible. For more information, including important deadlines, please visit the Student Wellness website at: <http://www.queensu.ca/studentwellness/accessibility-services/>

## **Extenuating Circumstances**

The Senate Policy on Academic Consideration for Students in Extenuating Circumstances (<https://tinyurl.com/yaj7be64>) was approved in April, 2017. Queen's University is committed to providing academic consideration to students experiencing extenuating circumstances that are beyond their control and which have a direct and substantial impact on their ability to meet essential academic requirements. The Faculty of Arts and Science has developed a protocol to provide a consistent and equitable approach in dealing with requests for academic consideration for students facing extenuating circumstances, which can be found at: <http://www.queensu.ca/artsci/accommodations>

**Course Schedule and Readings for Module  
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## Executive functioning and theory of mind

Thursday, Sept 20: Overview

Devine, R. T. & Hughes, C. (2014). Relations between false belief understanding and executive function in early childhood: A meta-analysis. *Child Development, 85*, 1777-1794.

Tuesday, Sept 25: Expression/Emergence

Carlson, S. M., Claxton, L. J., & Moses, L. J. (2015). The relation between executive function and theory of mind is more than skin deep. *Journal of Cognition and Development, 16*, 186-197.

Benson, J. E., Sabbagh, M. A., Carlson, S. M., & Zelazo, P. D. (2013). Individual differences in executive functioning predict preschoolers' improvement from theory-of-mind training. *Developmental Psychology, 49*, 1615-1627.

## Broader Conceptualizations

Thursday, Sept 27: Before false belief

Peterson, C. C., Wellman, H. M., & Slaughter, V. S. (2012). The mind behind the message: Advancing theory-of-mind scales for typically developing children, and those with deafness, autism or Asperger syndrome. *Child Development, 83*, 469-485.

Lizzkowski, U., Carpenter, M. & Tomasello, M. (2008). Twelve-month-olds communicate helpfully and appropriately for knowledgeable and ignorant partners. *Cognition, 108*, 732-739.

Tuesday, Oct 2: After false belief

Lagattuta, K. H., Kramer, H. J., Kennedy, K., Hjortsvang, K., Goldfarb, D.

Thursday, Sept 2 After  
&

brain region for thinking about thoughts. *Child Development*, *83*, 1853-1868.  
doi: 10.1111/j.1467-8624.2012.01829.x

Tuesday, Oct 9: Neurobiology & Temperament

Sabbagh, M. A. (2016). Dopamine and theory of mind in preschoolers. In J. Sommerville & J. Decety (Eds.) *Social Cognitive Development across the lifespan*

Mink, D., Henning, A., & Aschersleben, G. (2014). Infant shy temperament predicts preschoolers' theory of mind. *Infant Behavior and Development*, *37*, 66-75. doi: 10.1016/j.infbeh.2013.12.001



### **PechaKucha talks**

Although this week we will have group presentations in class, I am assuming that everyone will be continuing their work on their contributions to the review papers outside of class. This will include doing the research, integrating thoughts, and beginning work on a rough draft of their contribution.

Tuesday, November 6: Presentations from groups A, B, & C.

Thursday, November 8: Presentations from groups D, E, & F.

### **Preparation of TiCS paper and Final Presentations**

Tuesday, Nov 13

Thursday, Nov 15

Tuesday, Nov 20

Over these three days, group members should be circulating rough drafts of their unique contributions to the review paper to other group members for feedback, editing, and integration into the whole paper. Group members should also be working together to finalize formatting decisions, glossaries, figures, “boxes,” and other unique aspects of the TiCS paper.

### **Final Presentations**

Thursday, Nov 22 Groups A & F

Tuesday, Nov 27: Groups C & D

Thursday, Nov 29: Groups B & E