

# **Did reasoning in humans evolve for purposes of communication?**

## **Exploring the relation between reasoning and communication from an evolutionary perspective**

Two important cognitive skills that are often considered to set humans apart from their evolutionary cousins are on the one hand our remarkable capacity for reasoning, and on the other our profound linguistic abilities.

This thesis aims to take a closer look at each of these cognitive capacities from an evolutionary perspective. Ultimately, the goal will be to establish the nature of the relation between reasoning and communication: did reasoning in humans evolve for the purpose of enabling communication?

### **1 A quick glance at causation in evolution**

In order to answer the question of whether one thing evolved for the purposes of, or because of, another, a brief look at what this entails is in order. I will analyze what it means for something to evolve because of another thing using findings in philosophy of biology (Ayala (1999), and possibly Allen, Bekoff, and Lauder (1998) and Wright (1976)). The purpose of this chapter is not to provide a complete overview of theories of causation in evolution, as this would be out of scope. It is merely to provide a foundation to the claims on evolutionary causation later in the thesis.

### **2 Reasoning: an evolutionary perspective**

In this chapter, I will delve into reasoning as a cognitive capacity

### **3 Communication: an evolutionary perspective**

### **4 The relation between reasoning and communication**

Now that we have sketched a view of the evolution of reasoning and communication in humans, it is time to consider the intersection of these two capacities.

## **Summary**

In conclusion, the preliminary table of contents of my thesis will be as follows:

- Introduction
- 1. A quick glance at causation in evolution
  - What does it mean for a trait to evolve *because of* another trait?
- 2. Reasoning: an evolutionary perspective

3. Communication: an evolutionary perspective
  4. The relation between reasoning and communication
- Conclusion

## Preliminary bibliography

- Allen, Colin, Marc Bekoff, and George V. Lauder (1998). *Nature's purposes: Analyses of function and design in biology*. MIT Press.
- Ayala, Francisco J. (1999). "Adaptation and novelty: teleological explanations in evolutionary biology". In: *History and philosophy of the life sciences*, pp. 3–33.
- Mercier, Hugo and Dan Sperber (2017). *The enigma of reason*. Harvard University Press. doi: 10.4159/9780674977860.
- Tomasello, Michael (2008). *Origins of human communication*. MIT Press. doi: 10.7551/mitpress/7551.001.0001.
- Wright, Larry (1976). *Teleological explanations: An etiological analysis of goals and functions*. University of California Press.