# A Critical Analysis of the Argumentative Theory of Reasoning:

Caveats from the Evolution of Human Communication

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#### Introduction

- Hugo Mercier and Dan Sperber
- ► Function of reasoning: not epistemic, but social
- Argumentative theory of reasoning: the function of reasoning is to produce and evaluate arguments

#### Mercier and Sperber (2011, p. 60)

"Reasoning has evolved and persisted mainly because it makes human communication more effective and advantageous."

#### Outline

- The stability of communication
- The argumentative theory of reasoning
- The evolution of human communication
- Criticizing the ATR
- Conclusions













Scott-Phillips (2008), "On the correct application of animal signalling theory to human communication"





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#### The evolutionary arms race

insert flowchart with four steps, including epistemic vigilance (which you'll spend some extra time on

Sperber (2001), "An Evolutionary Perspective on Testimony and Argumentation" Sperber et al. (2010), "Epistemic vigilance"

#### Mercier and Sperber (2011)

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reasoning

facilitates

argumentation

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reasoning facilitates argumentation argumentation stabilizes communication

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reasoning	facilitates	argumentation
argumentation	stabilizes	communication
communication	facilitates	cooperation
cooperation	contributes to	survival

#### The evolution of human communication

## Criticizing the ATR

#### Conclusions

- ► Intuitively attractive idea
- ► Theory is not cutting it

## Selected bibliography



- Scott-Phillips, T. C. (2008). "On the correct application of animal signalling theory to human communication". In: *The evolution of language*. World Scientific, pp. 275–282.
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