

# *Task 7.5*

## *Dialogue and interactive alignment for shared decision making*

**Anna-Lisa Vollmer (ER 3)**

University of Plymouth  
THINK&TALK node

**RobotDoC**

Robotics for Development of Cognition

## CV

- **2002-2007** Bachelor's/Master's degree in Mathematics (Dipl. Math.), Bielefeld University
- **2008-2011** PhD "Measurement and Analysis of Interactive Behavior in Tutoring Action with Children and Robots", Bielefeld University

# *PhD work Research Questions*



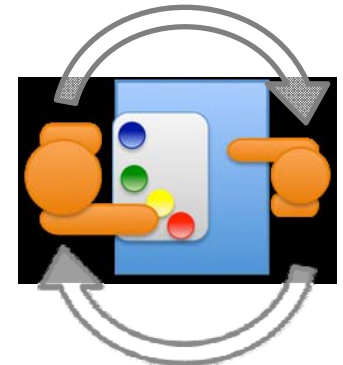
Goal: Develop robots which can learn the way children learn

- What constitutes a natural tutoring interaction?
- How can complex human behavior in naturalistic interactions be analyzed?
- How could a robot know what is important about a shown action and what to copy?

# *PhD work*

## *Investigating Motionese*

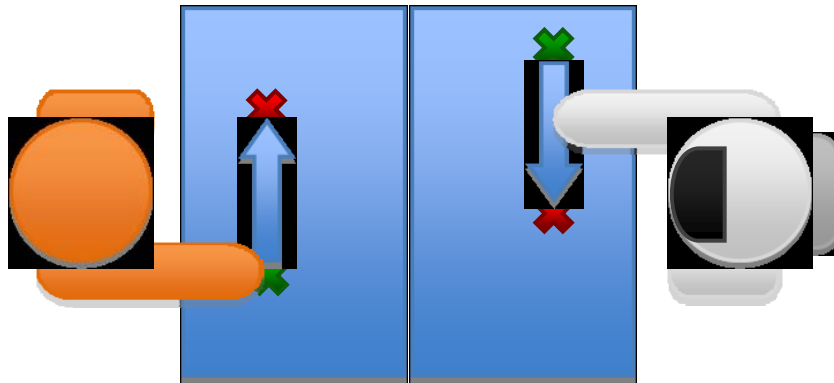
- Tutoring Behavior
- Learner Behavior
- Tutoring Interactions



# *PhD work*

## *Human-Robot Interaction*

- To investigate and transfer previous findings to human-robot-interaction in an imitation learning scenario



## *PhD work Conclusion*

- A natural tutoring interaction is bidirectional.
- Development of interdisciplinary methods to analyse interactional behavior
- Proposition of robot feedback strategies

## ***Motivation to join RobotDoC***

- Opportunity to stay in academia
- Continue my work on interaction
- Extend my expertise to other robot platforms

### **In RobotDoC**

- Study alignment processes in human-robot interaction
- Conduct follow-up studies on the iCub robot

