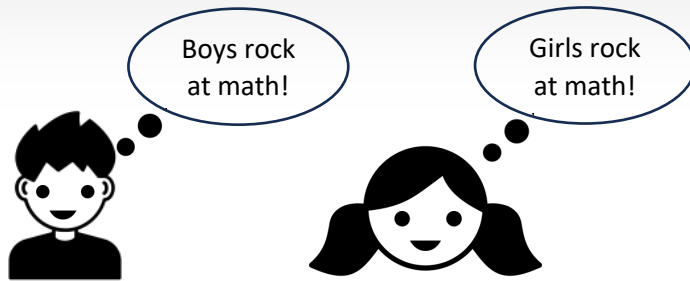
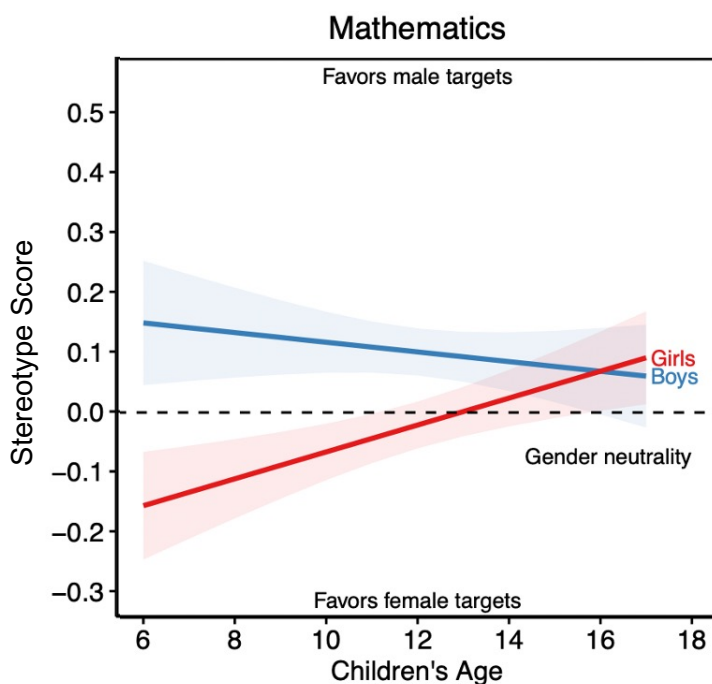


# Children's Gender Stereotypes About Math Ability Are Weak on Average. But **Computer Science, Engineering, and Physics** Tell a Different Story.

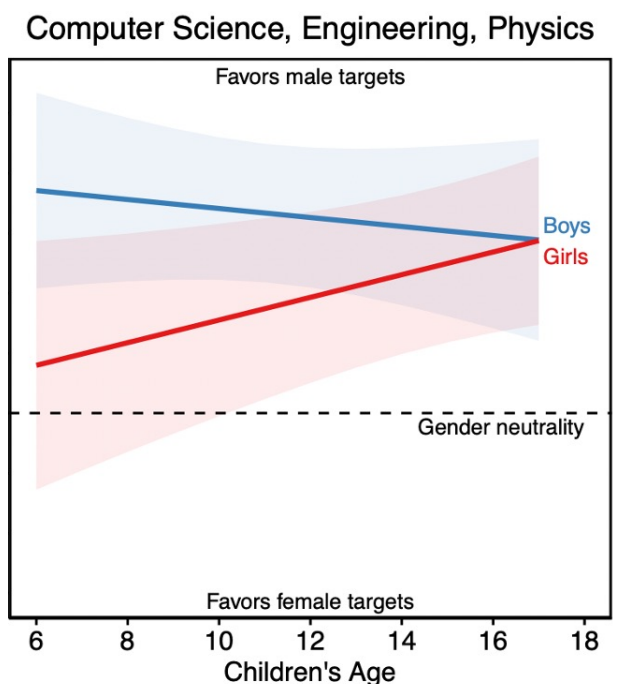
#1920401: *The Development of Children's Gender Stereotypes About STEM Abilities: A Meta-Analysis*



**Result 1:** For math stereotypes, young children show **in-group bias** at age 6. These beliefs shift across age but still only **weakly** favor male ability at age 16.



**Result 2:** But for computer science, engineering, and physics, both boys and girls strongly believe in **male superiority**, even at age 6.



## Methods

Systematic review

Meta-analysis

- Registered hypotheses and analysis plan on Open Science Framework.
- Screened more than 18,000 citations for eligibility.
- Found 98 eligible studies representing 145,000+ children.
- Spans four decades of data (1977–2020) and 31 nations.
- Used latest meta-analysis methods (e.g., robust variance estimation).

## Current Challenge

What are innovative but feasible ways to disseminate to (a) applied researchers interested in building on the findings or (b) STEM outreach organizations with gender-based programming?



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