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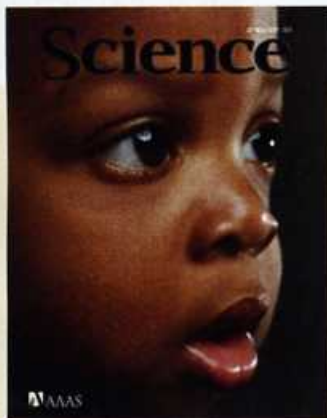
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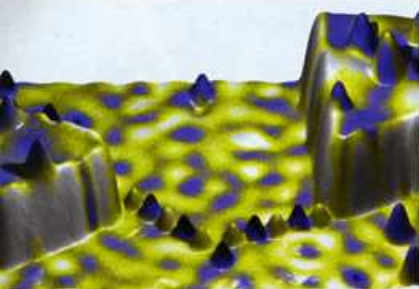
COVER

A 1-year-old child will spend more time looking at a visual display of moving objects when what he sees is not what he expects. How young children incorporate prior probabilities with current dynamic cues to make predictions about future events can be explained by modeling the child as a Bayesian observer. See the Research Article by Téglás *et al.* on page 1054.

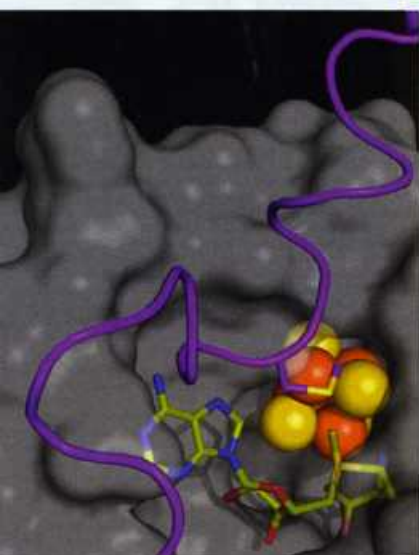
Photo: Ryan McVay/Getty Images

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Twelve-month-old infants employ Bayesian statistics.

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- 1068 **Seismic Imaging of Transition Zone Discontinuities Suggests Hot Mantle West of Hawaii**
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- 1071 **Computational Design of Virus-Like Protein Assemblies on Carbon Nanotube Surfaces**
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- 1076 **Impact of Antarctic Circumpolar Current Development on Late Paleogene Ocean Structure**
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- 1079 **Early Warnings of Regime Shifts: A Whole-Ecosystem Experiment**
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- 1083 **Initiation of Proximal-Distal Patterning in the Vertebrate Limb by Signals and Growth**
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- 1086 **Diffusible Signals, Not Autonomous Mechanisms, Determine the Main Proximodistal Limb Subdivision**
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A common plant pathogen induces the growth of disease-suppressive microbes in local soil communities.
- 1100 **Differences Between Tight and Loose Cultures: A 33-Nation Study**
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