

# The frontiers of simulation-based inference

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## **Abstract**

Many domains of science have developed complex simulations to describe phenomena of interest. While these simulations provide high-fidelity models, they are poorly suited for inference and lead to challenging inverse problems. In this talk, we will review the rapidly developing field of simulation-based inference and identify the forces giving additional momentum to the field. Finally, we will describe how the frontier is expanding so that a broad audience can appreciate the profound influence these developments may have on science.

**Reference:** [www.pnas.org/content/117/48/30055](http://www.pnas.org/content/117/48/30055)