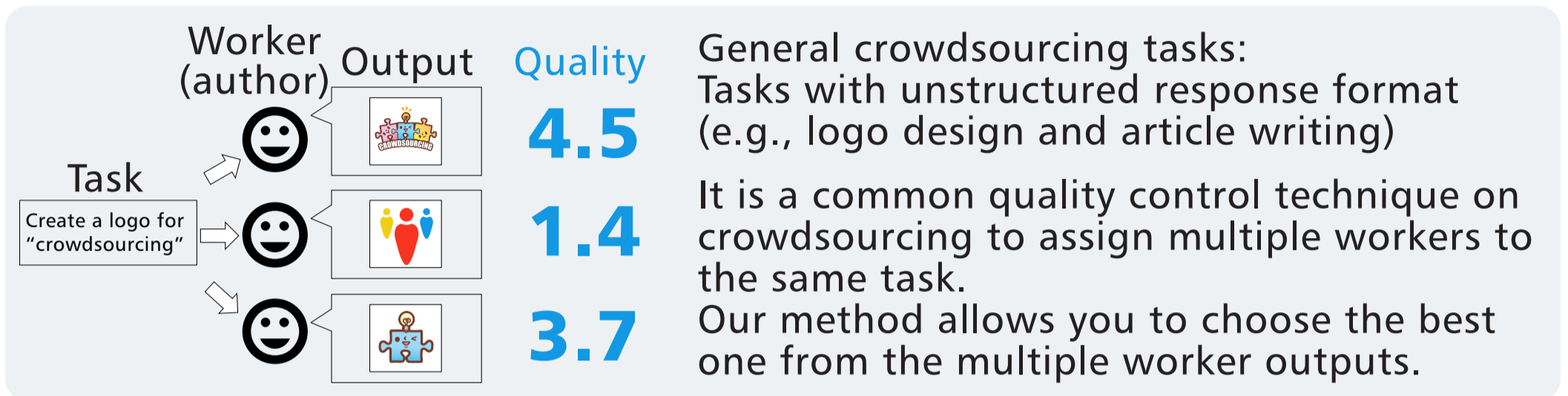


# Statistical Quality Estimation for General Crowdsourcing Tasks

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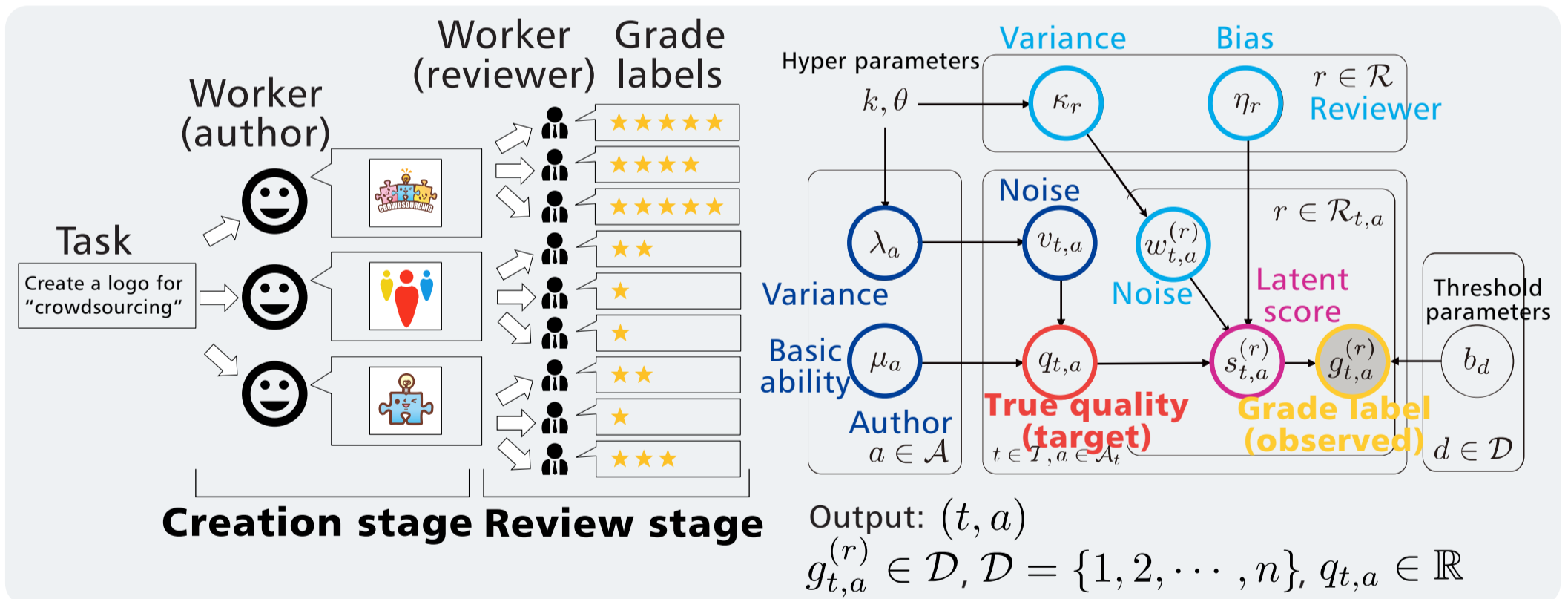
## OVERVIEW

We propose an unsupervised statistical quality estimation method for general crowdsourcing tasks



## APPROACH

We introduce a **two-stage generative model** consisting of the **creation stage** and the **review stage**



## RESULTS

Our method outperforms popular vote aggregation methods in terms of the estimation accuracy and performance in finding the best output

Three tasks:

- Logo designing
- image description
- language translation

Baselines:

- Averaging of grade labels
- Ordinal label aggregation [Rayker and Yu, '11] (considering only reviewer abilities)