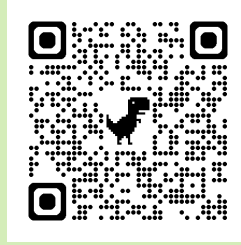


# Nikolay Kudrin



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## Testing for and Evaluating the Extent of Selective Reporting

This paper proposes novel approaches for testing and quantifying the extent of selective reporting, such as p-hacking and publication bias, in scientific literature. The new tests for detecting selective reporting based on the distribution of published p-values utilize a non-parametric deconvolution estimator of the underlying distribution of local study-specific effects. These tests demonstrate significant power improvements over existing methods, particularly in cases with moderate sample sizes that are frequently encountered in applications. Furthermore, the identified set for the extent of selective reporting is derived, and a method for estimating its lower bound is proposed.

These new tools are applied to two datasets of published p-values from top Economic journals.

**ITAM** Departamento de Estadística

# Seminario Aleatorio



**Viernes 14 de febrero**  
**1:00 pm**  
**Salón 317**

