

# 國立中央大學

## 統計研究所

### 學術演講

主 講 人：Sara Kropf 博士（中央研究院 統計科學研究所）

講 題：Efficient Computation of Ratios of Stirling Numbers

時 間：105 年 11 月 15 日（星期二）上午 11：00 ~ 12：00

地 點：中央大學鴻經館 M429 室

茶 會：上午 10：30 ~ 11：00

地 點：鴻經館 510 室

### ABSTRACT

For several parameters of distributions, the minimum variance unbiased estimator can be expressed as the ratio of consecutive terms of a combinatorial sequence like Stirling numbers. These ratios also occur in applications, where it is necessary to efficiently compute these ratios.

However, that is non-trivial: Both the numerator and the denominator grow exponentially fast, but the quotient is small. So it is preferable to directly compute the quotient instead of computing numerator and denominator separately. We give a general procedure to compute an asymptotic expression for such ratios directly. This is joint work with Hsien-Kuei Hwang.

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