

# 國立中山大學應用數學系

## 學術演講

講者：謝叔蓉 教授

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講題：Genomic examples in data science

時間：2019/11/18 (Monday) 11:10 ~ 12:00

地點：理學院四樓理 SC 4009-1 室

茶會：12:00 於理 SC 4010 室 (系辦公室)

### Abstract

I will first introduce the regulation of transcription factors on their target genes, and some related molecular biology, in addition to microarray gene expression data and ChIP chip data. Next, regulation of molecules, such as methyl and acetyl group (abbreviated as me and ac, respectively) binding to enhancers upstream of genes will be discussed.

These molecular biology backgrounds serves as backgrounds for applications in “Why significant variables aren’t automatically good predictors” (PNAS, 2015) and “Refining interaction search through signed iterative Random Forests”, which demonstrate statistical learning methods applied to genomic data in both human and fruit fly.

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