國立中山大學應用數學系
學術演講

講　　者：Professor Todd Ogden
　　　　　Department of Biostatistics at Columbia University

講　　題：Functional and imaging data in precision medicine: Towards optimal treatment selection

時　　間：2016/5/12（星期四）14:10～15:00

地　　點：理學院四樓理 SC 4009-1 室

茶　　會：15:00 於理 SC 4010 室（系辦公室）

摘　要

One goal in precision medicine is to make optimal patient-specific treatment decisions using available baseline data. One important application involves complex data in the treatment of neuropsychiatric disorders, including brain imaging or other functional data. Such data which can be incorporated into regression models of treatment outcome using functional data analytic techniques. Thus, obtaining useful and interpretable fits in such a situation generally involves some sort of dimension reduction or penalization, taking into account the particular (spatial) structure of the data. This talk will introduce the problems and describe some basic strategies that have proven effective in this context.

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