

MA4198 PROJECT PROPOSAL (PROJECT CUM SEMINAR GROUP)

SUPERVISOR'S INFO

Name:	Alvin Chua
Email:	alvincjk@nus.edu.sg
Tel number:	65161818
Office location:	S12-03-07

PROJECT ID: PS2410-04

TITLE

Bayesian statistical modelling and inference

BRIEF DESCRIPTION OF PROJECT

Bayesian methods are a vital tool for any applied mathematician/statistician who works regularly with data. This project will provide an introduction to Bayesian statistics from first principles, and touch on some of the current approaches to Bayesian modelling and inference in statistics and other fields.

EXPECTATION/S

Each student will be expected to learn the basics of Bayesian statistics, and to set up and perform a Bayesian analysis on a data set of their choice.

PREREQUISITE/S (at level 3000 or below, with at most one course at level 3000)

MA2116 or MA2301

READING REFERENCE/S

Bayesian Data Analysis, 3rd Ed. – Andrew Gelman, et al.