

2.7 Learning objectives

By the end of this chapter, you should be able to:

- determine the posterior distribution for $(\mu, \tau)^T$
- determine and use the univariate prior and posterior distributions
- determine confidence intervals, HDIs and confidence regions
- determine the predictive distribution of another value from the population, and its predictive interval
- determine the predictive distribution of the mean of another random sample from the population

both in general and for a particular prior and data set. Also you should be able to:

- appreciate the benefit of naming distributions and for having lists of properties for these distributions