

# Learning to Love Bayesian Stats

↳ Allan Downey

→ Bayesian Myths

- false
- Difficult - Ridiculous math + integrals
  - Slow - computationally expensive
  - Subjective - depends on priors
  - Redundant - frequentism exists

→ Subjective

↳ yes! Assumptions are explicit instead of hidden or unstated

↳ convergence w/ data

→ Redundant

↳ p values & hypo-testing sucks.

But aren't results the same?

↳ PE estimates & confidence intervals in freq.

→ Bayes - distributions, more than just a pt est.

→ Posterior

↳ gives all possible outcomes w/ prob for each one

↳ updates w/ new info.

→ much more actionable

↳ & allows for complex analysis under uncertainty

Allows for different tasks than frequentism

→ Difficulty

↳ Analytical analysis can be difficult

↳ comp. approach is easier

↳ check: [tinyurl.com/compbayes14](http://tinyurl.com/compbayes14)

→ Just takes practice