

Statistical Rethinking Book Club, 2022

Tim Feeney

June-August 2022

Link to book for those that need it

Scheduled Time: Thursdays 4pm-5pm

Schedule:

Meeting date	Reading	Lectures
June 2	Chapters 1, 2 and 3	[1] The Golem of Prague (Slides) [2] Bayesian Inference (Slides)
June 9	Chapters 4 and 5	[3] Basic Regression (Slides) [4] Categories & Curves (Slides)
June 16	Chapters 5 and 6	[5] Elemental Confounds (Slides) [6] Good & Bad Controls (Slides)
June 23	Chapters 7, 8 and 9	[7] <Overfitting> <(Slides)> [8] <Markov chain Monte Carlo> <(Slides)>
June 30	Chapters 10 and 11	[9] <Logistic and Binomial GLMs> <(Slides)> [10] <Sensitivity and Poisson GLMs> <(Slides)>
July 7	Chapters 12 and 13	[11] <Ordered Categories> <(Slides)> [12] <Multilevel Models> <(Slides)>
July 14	Chapters 13 and 14	[13] <Multi-Multilevel Models> <(Slides)> [14] <Correlated varying effects> <(Slides)>
July 21	Chapter 14	[15] <Social Networks> <(Slides)> [16] <Gaussian Processes> <(Slides)>
July 28	Chapter 15	[17] <Measurement Error> <(Slides)> [18] <Missing Data> <(Slides)>
Aug 4	Chapters 16 and 17	[19] <Beyond GLMs> <(Slides)> [20] <Horoscopes> <(Slides)>

Date	Topic	Chapter	Problems	Youtube link
June 2	Introduction	1: Golem of Prague	HW 1 Solns Solns code	Lec 1
June 9	Bayesian Inference: Possibilities	2: Small Worlds and Large Worlds	HW 2 Solns Solns Code	Lec 2
June 16	Bayesian Inference: Sampling	3: Sampling the Imaginary		
June 23	Modelling	4: Geocentric Models		Lec 3
June 30	Variable Selection and Confounding	5: The Many Variables and the Spurious Waffles & 6: The Haunted DAG and The Causal Terror		Lec 4 Lec 5 Lec 6 Lec 7

Date	Topic	Chapter	Problems	Youtube link
July 7	Model Building: Parameterization	7: Ulysses' Compass		[Lec 3]
July 14	Model Building: Interaction Terms	8: Conditional Manatees		[Lec 3]
July 21	MCMC	9: Markov Chain Monte Carlo		Lec 8
July 28	GLMs	10: Big Entropy and The GLM		Lec 9
Aug 4	Extensions of the GLM	11: God Spiked the Integers		Lec 10 Lec 11