

BioSys PhD | Earthsystems PhD (2017)

STATISTICAL CONCEPTS REVIEW / INTRODUCTION TO R

Probability Theory

Part I - http://www.youtube.com/watch?v=3ER8OkqBdpE (Kahn Academy)

Part II - http://www.youtube.com/watch?v=6E_NVnboMB8 (Kahn Academy)

Part III - http://www.youtube.com/watch?v=wBDOCvHYckE (Kahn Academy)

Random Variables

Discrete - http://www.youtube.com/watch?v=mrCxwEZ_220 (Kahn Academy)

http://www.youtube.com/watch?v=0P5WRKihQ4E (JBstatistics)

Att. The bars in the graphic should be separated (bar plot)

Continuous – http://www.youtube.com/watch?v=Fvi9A_tEmXQ (Kahn Academy)

http://www.youtube.com/watch?v=OWSOhpS00_s (JBstatistics)

E(X) / Var(X) – Discrete http://www.youtube.com/watch?v=g_AeTGaAu0c (David Waldo)

Continuous http://www.youtube.com/watch?v=gPAxuMKZ-w8 (MrNichollTV)

Covariance / Correlation - http://www.youtube.com/watch?v=pIj4PklTuMc (David Waldo)

Probability Distributions

Discrete - http://www.youtube.com/watch?v=Jm Ch-iESBg (JBstatistics)

Binomial; Geometric; Hypergeometric; Poisson

Chi-Square - http://www.youtube.com/watch?v=6Z4MBxye5VA (JBstatistics)

Normal – http://www.youtube.com/watch?v=iYiOVISWXS4 (JBstatistics)

Central Limit Theorem

http://www.youtube.com/watch?v=Pujol1yC1_A (JBstatistics)

Notes:

Empirical variance – http://www.youtube.com/watch?v=90NRMymR2Eg (JBstatistics)

Introduction to R

http://www.twotorials.com/2012/11/a-two-minute-introduction-to.html

Short videos - check the first 10