

Module 230: Major B ISB “Multi-level analysis”

Coordinator: Jay KAUFMAN, PhD, Professor McGill University

Location: EHESP – 20 Avenue George Sand 93120 La Plaine Saint Denis

Monday January 4 Jay KAUFMAN, PhD	Tuesday January 5 Jay KAUFMAN, PhD	Wednesday January 6 Jay KAUFMAN, PhD	Thursday January 7 Tarik BENMARHANIA, PhD	Friday January 8 Tarik BENMARHANIA, PhD
9.00 – 10.15 Review of Regression Modeling in Epidemiology 10.15- 10.45 Bias/Variance Trade-Off 10.45-11.00 Break 11.00-11.30 James-Stein and Empirical Bayes Shrinkage 11.30-12.00 Hierarchical Data Models 12.00-12.45 Random Effects ANOVA	9.00 – 9.30 Fixed Versus Random Effects 9.30- 10.00 Empirical Bayes Prediction 10.00-10.30 Parameter Estimation and Model Fitting 10.30-10.45 Intraclass Correlation Coefficient 10.45-11.00 Break 11.00-11.15 Discussion of Merlo et al 2006a 11.15-12.00 Random Intercept Models with Covariates 12.00-12:45 Between and within effects of Level-1 covariates	9.00 – 9.30 Cluster-level confounding 9.30- 10.00 Hausman Test for Endogeneity 10.00-10.45 Random Coefficient Models 10.45-11.00 Break 11.00-11.15 Models for Categorical Response 11.15-11.45 Random Intercept Logistic Regression 11.45-12.15 Median Odds Ratio 12.15-12.45 Random Effects Poisson Regression	9.00 – 9.30 Causal Inference in Observational Studies 9:30 – 10:45 Fixed Effects for Panel Data and Case Crossover Designs 10.45-11.00 Break 11:00-12:45 Fixed Effects and Propensity Score Methods	9.00 – 10:45 Introduction to Quasi-Experimental Designs 10.45-11.00 Break 11:00-12:45 Difference-in-Differences and Synthetic Control Methods
1.00 PM : Lunch	1.00 PM : Lunch	1.00 PM : Lunch	1.00 PM : Lunch	1.00 PM : Lunch
2.00 PM Practice Dr J. Kaufman, McGill University 5.30 PM	2.00 PM Practice Dr J. Kaufman, McGill University 5.30 PM	2.00 PM Practice T Benmarhnia, University of California San Diego 5.30 PM	2.00 PM Practice T Benmarhnia, University of California San Diego 5.30 PM	2.00 PM Final Exam T Benmarhnia, University of California San Diego 5.30 PM

Please note that some small changes could occur