

Workshop on Analyzing Mixtures in Environmental Health Studies

Day 1: Thursday August 23, 2018

8:30 - 9:00	<i>Check-in and Breakfast</i>	
9:00 - 9:45	Welcome and Introduction	Marianthi-Anna Kioumourtzoglou
9:45 - 10:15	Session 1: Clustering Overview <ul style="list-style-type: none">• Hierarchical Clustering• K-means	Marianthi-Anna Kioumourtzoglou
10:15 - 10:30	<i>Break / One-on-one questions</i>	
10:30 - 11:15	Lab 1: Clustering	Marianthi-Anna Kioumourtzoglou
11:15 - 11:30	<i>Break / One-on-one questions</i>	
11:30 - 12:00	Session 2: PCA/FA Overview <ul style="list-style-type: none">• Principal Component Analysis (PCA)• Factor Analysis (FA)	Marianthi-Anna Kioumourtzoglou
12:00 - 12:45	Lab 2: PCA/FA	Marianthi-Anna Kioumourtzoglou
12:45 - 1:45	<i>Networking Lunch</i>	11 th Floor, Room 1101
1:45 - 2:45	Session 3: Variable Selection Overview <ul style="list-style-type: none">• Lasso• Group Lasso• Elastic Net	Jeff Goldsmith
2:45 - 3:00	<i>Break / One-on-one questions</i>	
3:00 - 4:30	Lab 3: Variable Selection	Jeff Goldsmith
4:30 - 5:00	Day Overview & Questions	

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Day 2: Friday August 24, 2018

8:30 - 9:00	Breakfast	
9:00 - 10:00	Session 4: BKMR <ul style="list-style-type: none">Bayesian Kernel Machine Regression	Brent Coull
10:00 - 10:15	Break / One-on-one questions	
10:15 - 11:30	Lab 4: BKMR	Brent Coull
11:30 - 11:45	Break / One-on-one questions	
11:45 - 12:45	Session 5: WQS <ul style="list-style-type: none">Weighted Quantile Sum Regression	Chris Gennings
12:45 - 1:45	Networking Lunch	11 th Floor, Room 1101
1:45 - 2:45	Lab 5: WQS	Chris Gennings
2:45 - 3:00	Break / One-on-one questions	
3:00 - 3:30	Session 6: Flexible Extensions <ul style="list-style-type: none">BKMRWQS	Brent Coull, Chris Gennings
3:30 - 3:45	Break / One-on-one questions	
3:45 - 5:00	Session 7: Interactive Panel Discussion & Course Wrap Up	