

### Statistical Methods for Analysis With Missing Data

(Marie Davidian, course at NC State University, spring 2017)

### Handling missing values

(Julie Josse, course at École Polytechnique, fall 2018 and Julie Josse & Nick Tierney, tutorial at *useR! 2018*, 2018)

### Analysis of missing values

(Jae-Kwang Kim, course at Iowa State University, fall 2015)

This course focuses on the theory and methods for missing data analysis. Topics include maximum likelihood estimation under missing data, EM algorithm, Monte Carlo computation techniques, imputation, Bayesian approach, propensity scores, semi-parametric approach, and non-ignorable missing data.

- [Introduction](#)
- [Likelihood-based approach](#)
- [Computation](#)
- [Imputation](#)
- [Multiple imputation](#)
- [Propensity Score approach](#)
- [Nonignorable missing data](#)

### Statistical Methods for Analysis with Missing Data

(Mauricio Sadinle, course at University of Washington, winter 2019)

## [Multiple imputation](#)

## [Missing values and principal component methods](#)

## [Specific data or application types](#)

## [Implementation in R](#)