



**Biostatistics, Epidemiology, and Research Design Key Component Activity**

***College of Public Health***

***Department of Biostatistics and Epidemiology***

**AGENDA**

**Introduction to Missing Data Analysis**

**May 19 – June 23, 2017**

**College of Public Health Building, Room 320**

**801 NE 13th Street**

**Oklahoma City, OK 73104**

**(Tulsa Room Location: 1G12 Schusterman Center)**

**Short Course Faculty:**

**Sixia Chen, Ph.D.**

Assistant Professor of Biostatistics

University of Oklahoma Health Sciences Center

**SCHEDULE:** The short course will be held at every Friday from 10am to 12pm from May 19 to June 23, 2017. The first hour will be lecture and the second hour will be in-class practice

**SOFTWARE:** Prior to the workshop, please install SAS and R on your laptop. Instructions may be found at:  <http://osctr.ouhsc.edu/introduction-bayesian-statistics> Please bring your laptops to each session

**PREREQUISITE:** Basic Linear Algebra including matrix calculations and so on, Basic Mathematical Analysis including integration, derivatives and so on, SAS and R Programming, Linear Regression, Frequency Analysis, Mathematical Statistics

**REGESTRATION:** College of Public Health Building, room 320, 801 NE 13th Street, Oklahoma City, OK, 73104. We need to put time and place here

**PARKING:** The College of Public Health Building is located on the corner of 13th Street and Phillips Avenue. Parking is available on the north side of the building. If you are driving north on Phillips Ave, you will see a sign for the Rogers Building Visitor Parking on the east side of the street. Pull into this lot. You will need to press the emergency button on the speaker box and indicate that you are attending a workshop in the College of Public Health Building for the parking gate to be raised

**OUTLINE:**

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| Time | Topic / activity |
| May 19th | Lecture 1: Introduction and likelihood-based approach |
| May 26th | Lecture 2: Imputation approach |
| June 2th | Lecture 3: Propensity score approach |
| June 9th | Lecture 4: Multivariate missing data problems |
| June 16th | Lecture 5: Longitudinal data with missing values |
| June 23th | Lecture 6: Applications |

**Short Couse Faculty Biographical Summaries**

**Dr. Sixia Chen** is Assistant Professor of Biostatistics and Epidemiology at The University of Oklahoma Health Sciences Center (OUHSC). Dr. Chen graduated with a BA in Mathematics from Fudan University at Shanghai, China in 2007 and PhD (2012) in Statistics from Iowa State University. His dissertation developed efficient methods to handle complex survey data with missing values. He has been a full-time faculty member at OUHSC since 2015 and has continued to develop missing data methods as well as survey sampling, nonparametric and semiparametric methods. Dr. Chen have published more than 10 independent research papers in leading statistical journals including Biometrika, Annals of Applied Statistics, Statistica Sinica and so on and coauthored more than 10 collaborative papers as well