The Art of Data Science

by Roger Peng & Elizabeth Matsui

24 June, Thursday (Session 1)

Data Analysis as Art

What this book deals with is like when we ask a musician what is really going in his mind would he be able to tell most of them, I guess not. Data Science is hard because of the fact that there are only a few people who can explain it as beautifully as they can do it.

Additional Reading Donald Knuth's Legendary Essay Computer Programming as an Art.

 ${
m He}\ {
m says}\ {
m Science}$ is knowledge which we understand so well that we can teach it to a computer. Everything else is ART

Creative Spark: At some point, the songwriter must inject a creative spark into the process to bring all the songwriting tools together to distinguish himself/herself Statisticicians have a process that they espouse but do not fully understand

What is Data Science

- 1. Development of a useful framework involving characterisation of the elements of a data analysis using abstract language in order to find the commonalities across different kinds of analyses. At times this language is the language of Mathematics.
- 2. On the other hand is it the details of an analysis.