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# Introduction

## Machine Learning Workshop Series

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Imperial College Data Science Society

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# **Imperial College Data Science Society (ICDSS)**

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- Raise Data Science Awareness
- Develop Data Science Skills
- Engage with Data Science Applications
- Create an Industrial Network

- Machine Learning Workshop Series
- Meet-up Events
- Career Events
- Advanced Data Science Team

## Background

- ICDSS Head of Talent Development
- Masters in Electrical and Electronic Engineering
- Focus on Machine Learning and Artificial Intelligence
- Industrial Experience in Data Science

## Contact Me

- Github      @filangel
- LinkedIn    @filangel
- Gmail

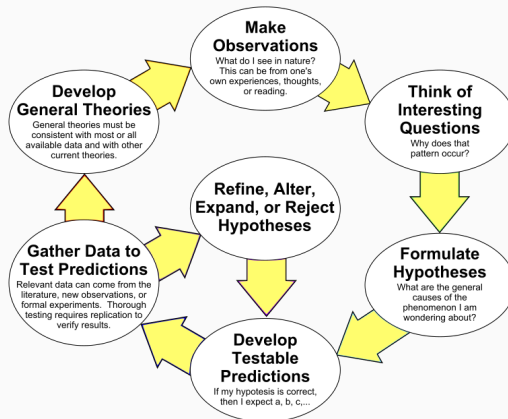
# Data Science

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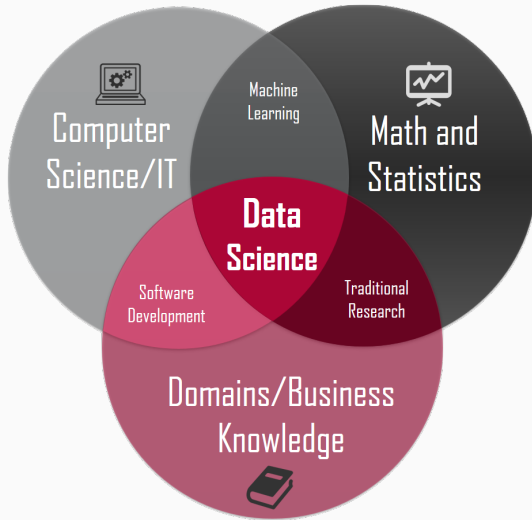


# The Scientific Method

## The Scientific Method as an Ongoing Process



# Data Science



## Dictionary-like

Data Science is the intellectual and practical activity encompassing the **systematic** study of the structure and behaviour of systems through data.

## Practical

Data Science is the intersection of Mathematics (esp. Statistics), Computer Science and Business, aiming to extract knowledge and insight from data.

# Workshops

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# Prerequisites

## Mathematics

- Linear Algebra
- (Multivariate) Calculus

## Computer Science

- **Good Will**
- Minimal experience with any programming language

## Business

- **Good Will**

- **Theory**

Lecture-like sessions, introducing new concepts and providing the mathematical formalisation to approach them.

- **Application**

Real-world application of the abstract knowledge introduced and suggested solutions.

- **Codelab**

Time to get our hands dirty with transforming the mathematical ideas to code and implementing the solutions.

- **DIY:** Bring your own machine or/and re-implement everything from scratch on your own time.
- Follow the provided resources for each workshop.
- Join Github and follow our channel to get updates.
- Get involved:
  - Ask questions.
  - Try the challenges.
  - Chase us.
- Give feedback!!!

**Questions?**





T. University.

**Data Science, 2017.**

Online; accessed 18 October 2017; available at

<http://www.fox.temple.edu/institutes-and-centers/data-science/>.



Wikipedia.

**Scientific method, 2017.**

Online; accessed 18 October 2017; available at

[https://en.wikipedia.org/wiki/Scientific\\_method](https://en.wikipedia.org/wiki/Scientific_method).

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