Technical University of Munich
Department of Mathematics

CIT5130002 IDSST
Problem set 3

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Homework problems:

Exercise 3.1 (10 points)**.** Answer all the questions from the Quiz **Intro to data - Experiments, Observational Studies, ...**.

> *The quiz is available from April 29, 19:00 until May 06, 09:00. You have 90 minutes to answer the questions.*
>
> **Remark:** The points for this problem count for the grade bonus.

Exercise 3.2. In January 2017, Buzzfeed published an article on why Nobel laureates show immigration is so essential for American science. The article shows that while most Nobel laureates in the sciences are based in the US, many of them were born in other countries. This is one reason scientific leaders say immigration is vital for progress.

Before you start solving the problem, you should read the Buzzfeed article titled *"These Nobel Prize Winners Show Why Immigration Is So Important For American Science"*.

Remark: The exercises for this problem are contained in the Quarto file `nobel_laureates.qmd`, which you can download from the Moodle folder "Data files, Quarto files and Solutions to previous problem sets".

Exercise 3.3.

> Complete the IDSST R tutorials
>
> - `isolating`, and
>
> - `bar-charts`
>
> until May 06.