



# Brush-Up Maths for Data Science (2025)

📄 Intro Slides, Aug. 16th

👤 Nicklas S. Andersen

University of Southern Denmark (SDU)

Department of Mathematics & Computer Science (IMADA)

# Course Introduction

- Teacher

Who am I?

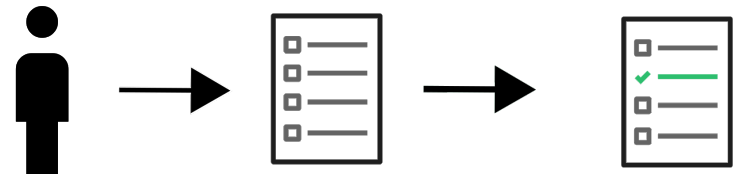
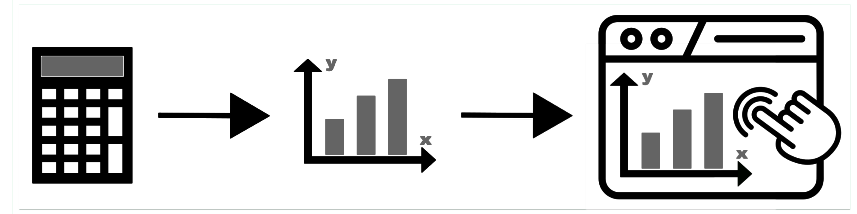
- Nicklas S. Andersen
- Background in
  - Applied maths
  - Computer science
- Post-doc at the Centre for Visual Data Science

The overarching theme of the projects I'm involved in:

- We work with users that perform specific tasks
- We design and develop tools to support them

Requires applying methodologies from:

- Data science
- Software engineering



# Course Introduction

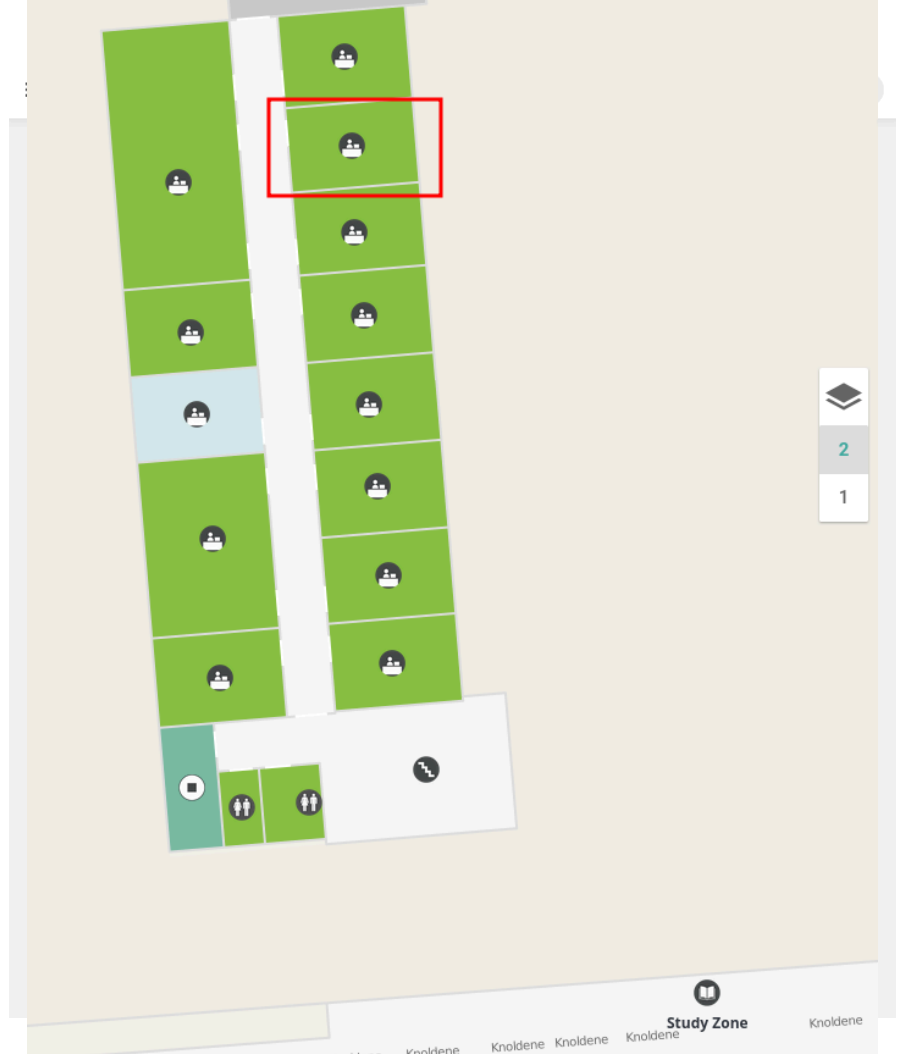
- Contact Information

Online:

- E-mail: [sindlev@imada.sdu.dk](mailto:sindlev@imada.sdu.dk)
- **Direct messaging:** [itslearning](#)

In person:

- **Odense office:** [Ø18-512a-2](#)



# Course Introduction

- Students

Who are you?

- Data science
- +100 Students
- Wide variety of specializations
- Variety of different backgrounds

~> Huge diversity

## Data science

Kandidat

[Om uddannelsen](#) [Adgangskrav og optagelse](#) [Opbygning](#)

[Studioliv](#) [Fremtidsmuligheder](#) [Har du spørgsmål?](#)

Kandidatuddannelsen i Data science varer 2 år. Hvert studieår er opdelt i 2 semestre.

De første 3 semestre består af obligatoriske fælleskurser, obligatoriske fagretningskurser og et specialiseret valgfagsmodul. På fjerde semester udarbejder du dit afsluttende specialeprojekt. Studieforløbet afhænger af hvilken fagretning du vælger.

|                                       |   |
|---------------------------------------|---|
| Economics and Business Administration | + |
| Health Data                           | + |
| Environmental Data Science            | + |
| Human Informatics                     | + |
| ICT Systems                           | + |
| MediaTech                             | + |
| Artificial Intelligence               | + |

# Maths Brush-Up Course

- Content & Structure

Topics:

- Set Theory
- Basic Algebra
- Calculus:
  - Functions & Graphs
  - Equation Solving
- Mathematical Logic
- Probability & Statistics
- Linear Algebra

The course will follow the overall structured loop:

1. Lecturing
2. Exercises
3. Solutions to exercises
4. Break

**Any questions?**