

Decomposition - Introduction

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LONDON
SCHOOL *of*
HYGIENE
& TROPICAL
MEDICINE



- Introductions
- Course structure and materials
- Grading
- Class

Introductions

- Who are you?
- Ever used decomposition methods?
- How comfortable are you with R?

Introductions

- Serena Vigezzi
- Post-doc at CPop, University of Southern Denmark and SUDA, Stockholm University
- Mostly worked on mortality, some on fertility, now on historical mortality crises

Course structure and materials

- Four classes
- Monday: Kitagawa decomposition and seminar
- Tuesday: Arriaga decomposition
- Wednesday: Horiuchi decomposition (Integral linear decomposition)
- Thursday: Other decompositions

Course structure and materials

- Frontal teaching
- Lab
- Group and class discussion
- Slides and code on Github: https://github.com/svigezzi/Decomposition_EDSD_2025_2026
- Quizzes: not graded, in teams, test whether we explained things well

Grading

- At-home assignment, in teams
- Coding and interpretation