Welcome to STAT3023/3923/4023!

Dr. Linh Nghiem

Teaching teams

- Dr. Linh Nghiem
  - ◇ STAT3023 Lecturer for Weeks 1–7
  - ◇ Email: linh.nghiem@sydney.edu.au; website: linhnghiem.org.
  - ◇ Consultation hours: by appointment, preferably in Carslaw 823 (Zoom can be arranged).
  - ◇ I do have an accent, so feel free to ask me to clarify if you do not understand.
- Dr. Rachel Wang
  - ◇ STAT3023 Unit Coordinator, Lecturer for Weeks 7–13
  - ◇ Email: rachel.wang@sydney.edu.au.
- Dr. Michael Stewart
  - ◇ STAT3923/4023 Unit Coordinator and Lecturer for advanced workshops
  - ◇ Email: michael.stewart@sydney.edu.au.

Course summary

Two main parts of the course:

1. **Additional distributional theory:** build on knowledge of STAT2011/STAT2911, necessary tools for the 2nd part.

2. **Optimal statistical inference:** estimation and hypothesis testing

Mathematical details, including proofs, are emphasized.

- You will also conduct simulation studies in R to demonstrate the theory.

Structure

For all STAT3023/3923/4023 students:

- 3 hour lectures per week on Tuesday (1–3pm), and Wednesday (2–3pm) from week 1
- 1 hour tutorial per week

For STAT3023 students:

- 1 hour computer lab per week

For STAT3923/4023 students:

- 1 hour advanced workshop on Monday (3–4pm)

Assessments

- 2 quizzes, each worth 12.5% for STAT3023 and 10% for STAT3923/4023.

	Quiz 1	Quiz 2
STAT3023	Wed 31 Aug	Wed 19 Oct
STAT3923/4023	Wed 31 Aug	Mon 31 Oct

- Computer reports (10%): multiple weeks
- Computer quiz (10%): November 2nd
- Final exam (55%): held during university exam period
- STAT3923/4023 students have weekly assignments, total worth 5%.

You are expected to...

- check the canvas website frequently
- check and contribute to the edstem discussion board
  - ◇ no course content question will be answered via email.
- complete the tutorial and computer lab questions in Week n by Week $n+1$
- seek help from lecturers and tutor
- study in group if possible (but don't cheat)

Tips for asking questions

- First search existing resources and discussion for answers.
- Use proper formatting in edstem. E.g. if using code, use code formatting and LaTeX for mathematical equations.
- Give context and be precise in your description:
  - ◇ Good description: *For Tutorial 3 Q1 (k), the answer is given as* $50.59 \pm 1.81 \times 4.56$. *Where does the value 1.812461 come from? Should this be* $t_{10}(0.975) = 2.28$, *which is the same as question 1 (j)?*
  - ◇ Bad description: "I don't get Tutorial 3 Q1 (k)."