

**Tilastollisen oppimisen jatkokurssi 2018–2019**  
**Advanced statistical learning 2018–2019**

**Round 4, 14.1.–27.1.**

**Topics:**

- Support vector machine (SVM)
- Maximal margin classifier and support vector classifiers
- Nonlinear decision boundaries
- SVM and relationship to logistic regression
- Kernels and SVMs

**Material:**

- ISLR chapters 9.1–9.5 (and Lab 9.6)
- ISLR videos 9.1–9.4
- FDP videos: 14–15
- ESLR chapters 12.1–12.3
- CASI chapter 19

**Exercises:**

1. ISLR 9.2
2. ISLR 9.3
3. ISLR 9.5
4. ISLR 9.7
5. ISLR 9.8