

Statistical Methods for High Frequency Data

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Tentative Reading List and Course Material

Papers

1. Main Introduction: [The Econometrics of High Frequency Data](#) (2012). (With some corrected typos here.)
2. [A tale of two time scales: Determining integrated volatility with noisy high-frequency data](#) (2005).
3. [Efficient estimation of stochastic volatility using noisy observations: A multi-scale approach](#) (2006).
4. [Estimating covariation: Epps effect, Microstructure noise](#) (2011).
5. [Realized volatility when sampling times are possibly endogenous](#) (2014).
6. [Inference for continuous semimartingales observed at high frequency](#) (2009).
7. [Assessment of Uncertainty in High Frequency Data: The Observed Asymptotic Variance](#) (2016).
8. [Between Data Cleaning and Inference: Pre-Averaging and Robust Estimators of the Efficient Price](#). (2016).

Exercises and Additional Material

Please consult

<http://galton.uchicago.edu/~mykland/OsloJan2017/> for latest update.

Computing

R: Download the latest version of R: [Windows](#) or [MAC](#)

After you have downloaded and installed R, install RStudio from [this link](#).

You can read a full-length introduction to R at

<http://cran.r-project.org/doc/manuals/R-intro.html>