

Course Plan:

Adv. Macro: Heterogeneous Agent Models

I. Consumption-Saving

- Lecture 1. Introduction (JD+PM)
Additional material: [Heathcote et al. \(2009\)](#); [Kaplan and Violante \(2018\)](#)
- Lecture 2.
Required reading:
Additional material:
- Lecture 3.
Required reading:
Additional material:

II. Stationary Equilibrium

- Lecture 4. Stationary Equilibrium (JD)
Additional material: [Aiyagari \(1994\)](#)
- Lecture 5.
Required reading:
Additional material:
- Lecture 6.
Required reading:
Additional material:

III. Transition Path

- Lecture 7. Transition Path (JD)

Required reading: Documentation for [GEModelTools](#) (*except on linearized solution and simulation*)

Additional material: [Auclert et al. \(2021\)](#), [Kirkby \(2017\)](#)

- Lecture 8.

Required reading:

Additional material:

IV. HANK

- Lecture 9. Analytical HANK Models (PM)

Required reading: [Werning \(2015\)](#); [Auclert et al. \(2018\)](#); [Broer et al. \(2020\)](#)

Additional material: Nothing

- Lecture 10. A Baseline HANK Model (JD)

Required reading: [Auclert et al. \(2021\)](#)

Additional material: Nothing

- Lecture 11. HANK-SAM Models (JD)

Required reading:

Additional material:

- Lecture 12. International-HANK Models (Guess)

Required reading:

Additional material:

- Lecture 13. Global solution methods with aggregate risk (JD)

Required reading:

Additional material:

- Lecture 14. Exam preparation (JD+PM)

Required reading:

Additional material:

References

- Aiyagari, S. R. (1994). Uninsured Idiosyncratic Risk and Aggregate Saving. *The Quarterly Journal of Economics*, 109(3):659–684. Publisher: Oxford University Press (OUP).
- Auclert, A., Bardóczy, B., Rognlie, M., and Straub, L. (2021). Using the Sequence-Space Jacobian to Solve and Estimate Heterogeneous-Agent Models. *Econometrica*, 89(5):2375–2408.
- Auclert, A., Rognlie, M., and Straub, L. (2018). The Intertemporal Keynesian Cross. NBER Working Paper 25020, National Bureau of Economic Research.
- Broer, T., Harbo Hansen, N.-J., Krusell, P., and Öberg, E. (2020). The New Keynesian Transmission Mechanism: A Heterogeneous-Agent Perspective. *The Review of Economic Studies*, 87(1):77–101.
- Heathcote, J., Storesletten, K., and Violante, G. L. (2009). Quantitative Macroeconomics with Heterogeneous Households. *Annual Review of Economics*, 1(1):319–354.
- Kaplan, G. and Violante, G. L. (2018). Microeconomic Heterogeneity and Macroeconomic Shocks. *Journal of Economic Perspectives*, 32(3):167–194.
- Kirkby, R. (2017). Transition paths for Bewley-Huggett-Aiyagari models: Comparison of some solution algorithms.
- Werning, I. (2015). Incomplete Markets and Aggregate Demand. NBER Working Paper 21448.