Course Plan:

Adv. Macro: Heterogeneous Agent Models

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All articles are posted under »Files« on Absalon

I. Consumption-Saving

• Lecture 1. Introduction (JD)

Additional material: Heathcote et al. (2009); Kaplan and Violante (2018)

• Lecture 2. Consumption-saving models (PM)

Required reading: Kaplan and Violante (2014)

Additional material: Harmenberg and Oberg (2021); Kaplan and Violante (2021)

• Lecture 3. Deviations from full rationality (PM)

Required reading: Carroll et al. (2020)

Additional material: Attanasio et al. (2020)

II. Stationary Equilibrium

• Lecture 4. Stationary equilibrium (JD)

Additional material: Aiyagari (1994)

Additional material: Nothing

• Lecture 5. Wealth inequality (PM)

Required reading: Hubmer et al. (2021)

Additional material: TBA

• Lecture 6. Housing wealth (PM)

Required reading: Sommer and Sullivan (2018)

Additional material: TBA

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. Indebted demand (PM)

Required reading: *TBA*Additional material: *TBA*

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: Bayer et al. (2019); Auclert et al. (2020)

• Lecture 11. HANK-SAM (JD)

Required reading: *TBA*Additional material: *TBA*

• Lecture 12. I-HANK (Guest)

Required reading: *TBA*Additional material: *TBA*

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

Required reading: *TBA*Additional material: *TBA*

Conclusion

• Lecture 14. Exam preparation (JD)

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).
- Attanasio, O., Kovacs, A., and Moran, P. (2020). Temptation and Commitment: Understanding Handto-Mouth Behavior. Publisher: Zenodo.
- Auclert, A., Bardoczy, 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.
- Auclert, A., Rognlie, M., and Straub, L. (2020). Micro Jumps, Macro Humps: Monetary Policy and Business Cycles in an Estimated HANK Model. NBER Working Paper 26647.
- Bayer, C., Luetticke, R., Pham-Dao, L., and Tjaden, V. (2019). Precautionary Savings, Illiquid Assets, and the Aggregate Consequences of Shocks to Household Income Risk. *Econometrica*, 87(1):255–290.
- Broer, T., Harbo Hansen, N.-J., Krusell, P., and Oberg, E. (2020). The New Keynesian Transmission Mechanism: A Heterogeneous-Agent Perspective. *The Review of Economic Studies*, 87(1):77–101.
- Carroll, C. D., Crawley, E., Slacalek, J., Tokuoka, K., and White, M. N. (2020). Sticky Expectations and Consumption Dynamics. *American Economic Journal: Macroeconomics*, 12(3):40–76.
- Harmenberg, K. and Oberg, E. (2021). Consumption dynamics under time-varying unemployment risk. *Journal of Monetary Economics*, 118:350–365.
- Heathcote, J., Storesletten, K., and Violante, G. L. (2009). Quantitative Macroeconomics with Heterogeneous Households. *Annual Review of Economics*, 1(1):319–354.
- Hubmer, J., Krusell, P., and Smith., A. A. (2021). Sources of US Wealth Inequality: Past, Present, and Future. *NBER Macroeconomics Annual*, 35:391–455. Publisher: The University of Chicago Press.
- Kaplan, G. and Violante, G. L. (2014). A Model of the Consumption Response to Fiscal Stimulus Payments. *Econometrica*, 82(4):1199–1239.
- Kaplan, G. and Violante, G. L. (2018). Microeconomic Heterogeneity and Macroeconomic Shocks. *Journal of Economic Perspectives*, 32(3):167–194.
- Kaplan, G. and Violante, G. L. (2021). The Marginal Propensity to Consume in Heterogeneous Agent Models. page 52.
- Kirkby, R. (2017). Transition paths for Bewley-Huggett-Aiyagari models: Comparison of some solution algorithms.
- Sommer, K. and Sullivan, P. (2018). Implications of US Tax Policy for House Prices, Rents, and Homeownership. *American Economic Review*, 108(2):241–274.
- Werning, I. (2015). Incomplete Markets and Aggregate Demand. NBER Working Paper 21448.