Um ARCH/ACD

- Bæði ARCH (kafli 3) og ACD (kafli 5) eru aðferðir til að nálgast hreyfimynstur í ómældum stærðum. Volatility (σ_t í kafla 3) og intensity (λ_t í kafla 5). Nota einhvers konar proxy stærðir.
- Allt sem hægt er að ímynda sér í hreyfimynstri hefur verið prófa hér (ARMA, long-memory, ýmis transform, o.s.frv.)
- Reiknitækni vandamál. Reynið að skilja nálgunina bls 120-121 og setja forrit upp í töflureikni (t.d. excel-týpu) eða R.
- Ef forritið virkar er auðvelt að átta sig á því að restin af kafla 3 er bara sköpunargleði með mismunandi nálgunum.
- Ýmsar skammstafanir verða til. Hallast sjálfur að ýmsum state-space nálgunum. Líka hægt að vinna í samfelldum tíma þar sem útkoman er þvinguð til að vera jákvæð.

Skammstafanir

Table 1. For each model: acronyms and corresponding full names, together with the changes made to the original name and the section in which the model is treated. Random term specifies which coefficients are random and heterogeneity specifies whether the coefficient is random in time and/or across units.

Acronym	Full model name	Changes	Section	Random term	Heterogeneity
ARCH	Autoregressive conditional heteroscedasticity	–	4.3	–	time
ARLM	Autoregressive linear mixed	–	5.1.2	effect of covariates	unit
ARP	Autoregressive panel data	–	5.1.2	intercept	unit
BVAR	Bayesian vector autoregressive	–	5.2	AR coef	unit
CHARMA	Conditional heteroscedasticity autoregressive moving average	–	4.4	AR coef	time
DFM	Dynamic factor	–	6.2	AR coef	time
GARCH	Generalized autoregressive conditional heteroscedasticity	–	4.3	–	time
GMB	Generalized Markovian bilinear	–	4.1.2	–	time
GRCA	Generalized random coefficient autoregressive	–	4.1	AR coef	time
HVAR	Hierarchical vector autoregressive	new	5.3	AR coef, effect of covariates	unit
RAR	Random autoregressive	new	3	AR coef, effect of covariates	time and unit
RARMA	Random autoregressive moving average	new	3	AR coef, effect of covariates	time and unit
RCA	Random coefficient autoregressive	–	4.1.1	AR coef	time
RCAC	Random coefficient autoregressive with correlated terms	new	4.2	AR coef	time
RCAP	Random coefficient autoregressive panel data	add panel data to distinguish from RCA	5.1.1	AR coef	unit
RCARRS	Random coefficient autoregressive regime switching	–	4.5	AR coef	time
RCEA	Random coefficient exponential autoregressive	–	4.1.3	–	time
RCP	Random coefficient panel	–	6.1	AR coef	time and unit
TSCS	Time-series-cross-sectional	–	5.1.3	AR coef	unit
TVAR	Time-varying autoregressive	–	4.6	AR coef	time
UAR	Unit-specific autoregressive	new	5.1	AR coef, effect of covariates	unit

Tengsl skammstafana

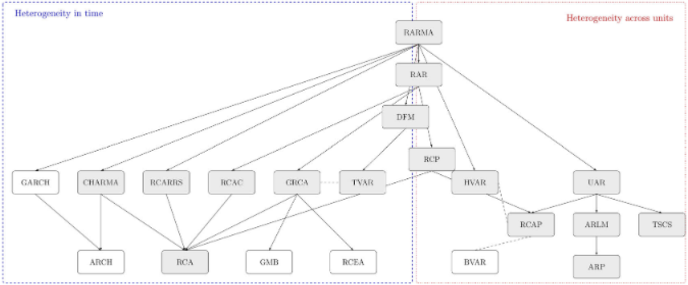

Figure 1. Hierarchical structure of model families grouped by the type of heterogeneity they are suited for. The blue dashed line groups models for heterogeneity in time. The red dotted line clusters models for heterogeneity across units. The acronyms in the graph's node correspond to the full model specifications provided in Table 1. The arrows point from the general structure to the particular case, while the dashed lines connect similar models in a broader sense. The white nodes are shortly treated in this overview, as they do not fulfill the inclusion criteria of the present work.