Econometrics 3 - Problem Set 10 PILI Pierre · GARDIE Marie · BIGLIETTI Isée May 28, 2024

1 Univariate analysis

(a) Data presentation: source and plots for each time series

U.S. Infra-Annual Labor Statistics: Unemployment Rate Total: From 15 to 64 Years for United States Units: Percent, Seasonally Adjusted Frequency: Quarterly From: 1970-01-01 // 2024-01-01 Source: Organization for Economic Co-operation and Development (le lien à ajouter https://www.oecd.org) U.S. Gross Domestic Product Description: Gross domestic product (GDP), the featured measure of U.S. output, is the market value of the goods and services produced by labor and property located in the United States. Units: Billions of Dollars, Seasonally Adjusted Annual Rate Frequency: Quarterly From: 1970-01-01 // 2024-01-01 Source: U.S. Bureau of Economic Analysis (le lien à ajouter https://www.bea.gov)

- (b) Unit root and stationarity tests for each time series
- (c) Identification of the ARMA or ARIMA process for two time series
- (d) Forecasts: in-sample and out-of-sample, for two time series