Kaiserhof

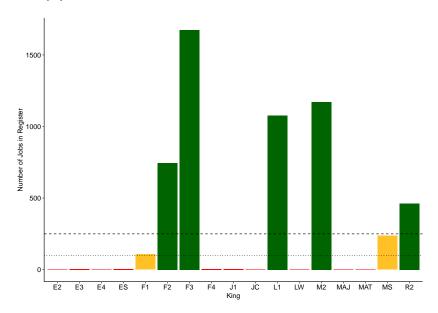
Cornelius

1/27/2020

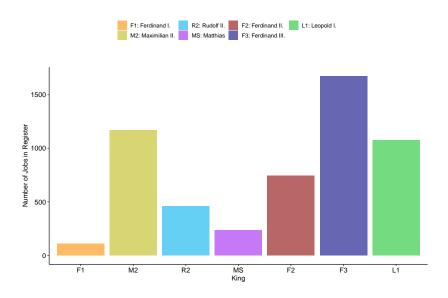
Fragestellungen

- 1. Welche Kaiser sind für die Analyse interessant?
- 2. Welche Job-Wechsel wurden beobachtet?
- 3. Welche Kovariablen könnten die Job-Wechsel erklären?
- 4. Welche Akteure sollten berücksichtigt werden?
- 5. Welche Akteure sind in dem Hofstaat bestimmter Kaiser?

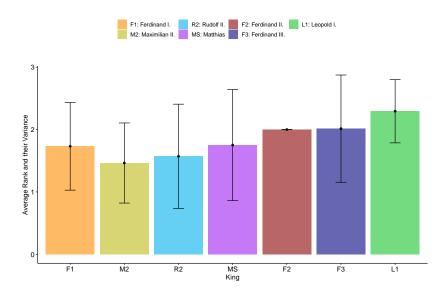
Kaiser (1)



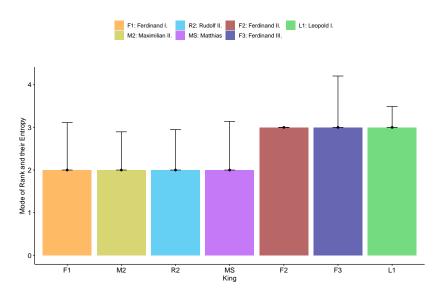
Kaiser (2)



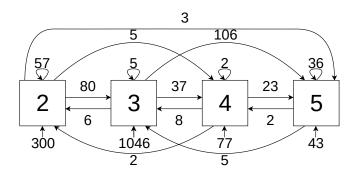
Kaiser (3)



Kaiser (4)

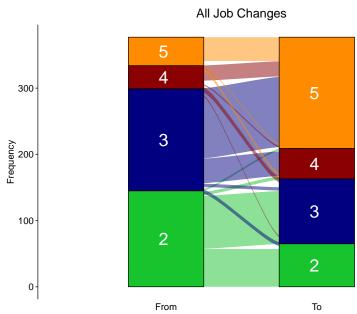


Job: All (Numbers)

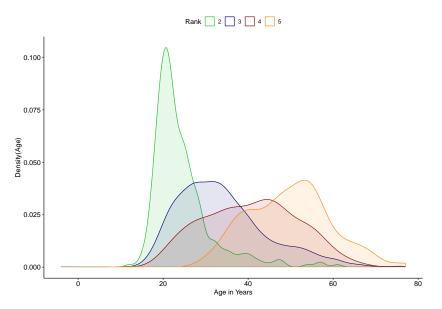


- ▶ Was für Job-Wechsel gibt es in den Daten?
- ► Ein Großteil der Beobachtung bleibt in dem gleichen Job

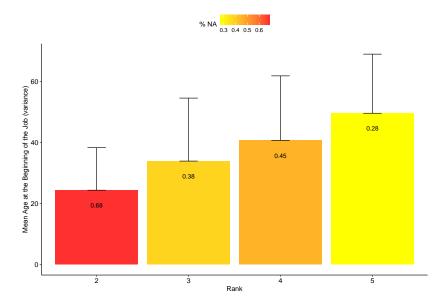
Job: All (Changes)



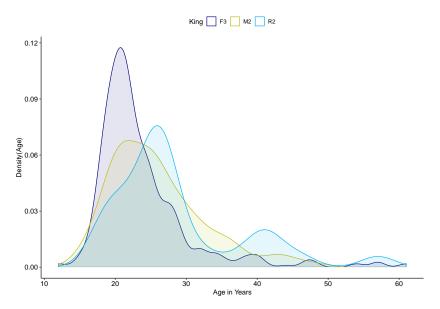
Job: All (Age)



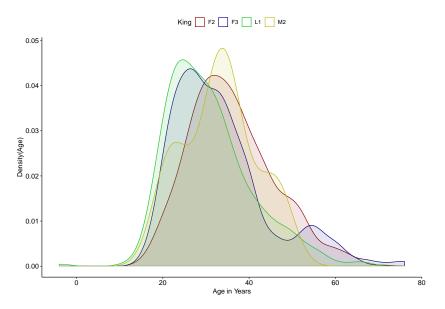
Job: All (Age)



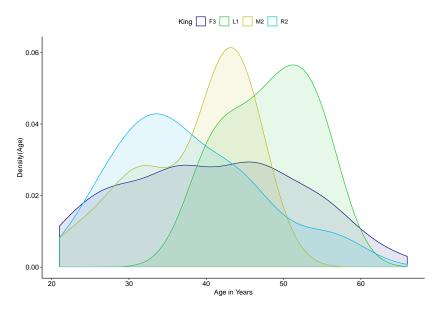
Job: Rank 2 (Age per King)



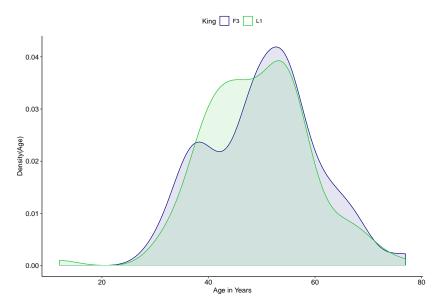
Job: Rank 3 (Age per King)



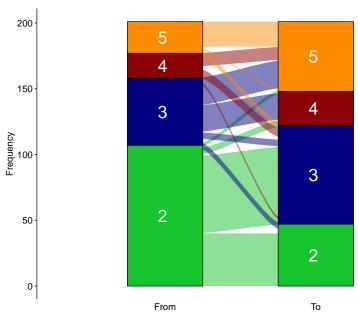
Job: Rank 4 (Age per King)



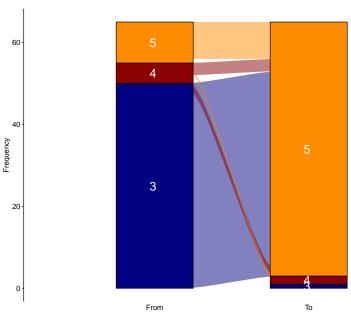
Job: Rank 5 (Age per King)



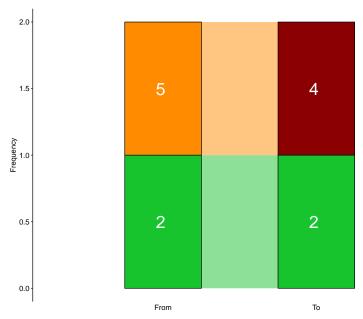
Job: Ferdinand III. (Changes)



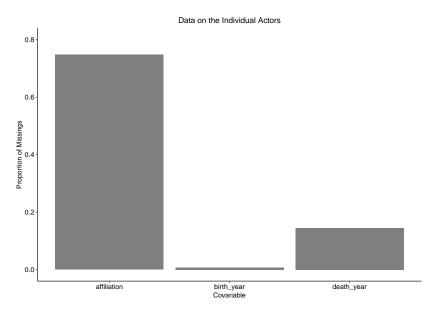
Job: Leopold I. (Changes)



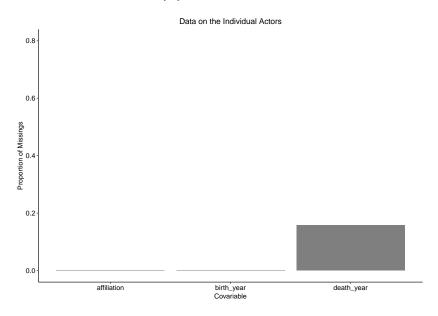
Job: Rudolf II. (Changes)



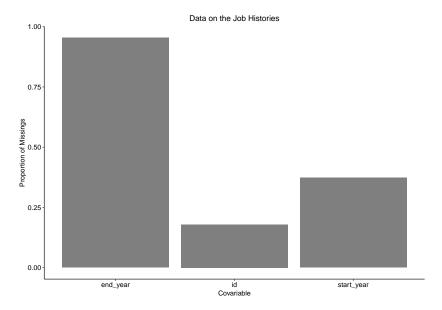
Missing Data: Alle Akteure (1)



Missing Data: In Job (2)



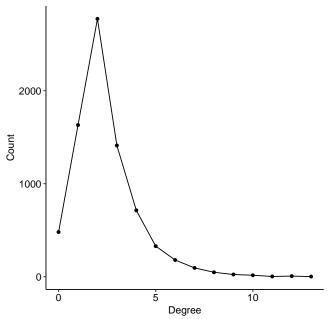
Missing Data: In Job (3)



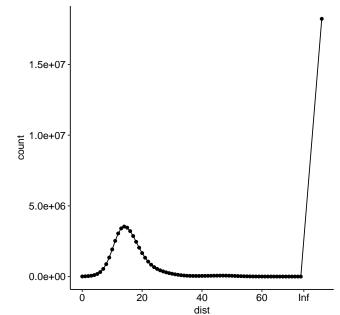
Time-Constant Network Measures (1)

- Aggregated marriages and births over all observations
- ► Average Degree: 2.558
- Clustering Coefficient: 0.196
- Number of weakly connected components: 185
- ▶ Percentage of biggest component: 88.76%

Time-Constant Network Measures (2)



Time-Constant Network Measures (3)



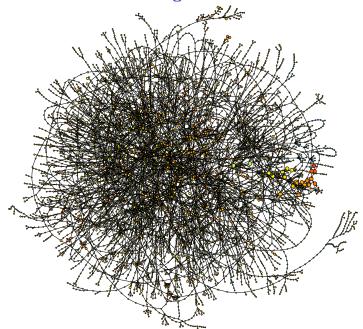
Time-Constant Networks: Graphics

- Only the biggest component is regarded in the graph drawings!
- Used Color-Scale (Exception is the Modularity Group Allocation):

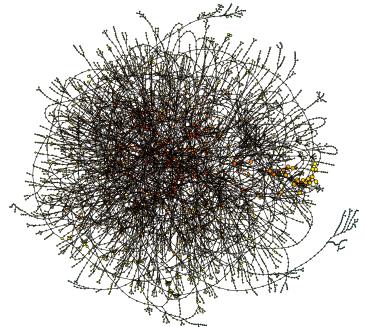


Low Middle High

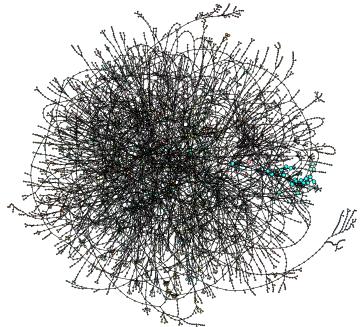
Time-Constant Networks: Age



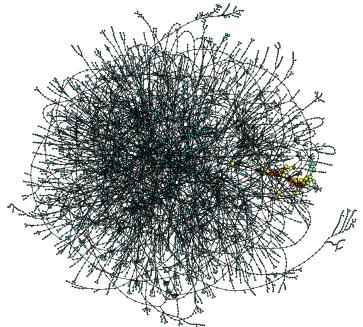
Time-Constant Networks: Closeness Centrality



Time-Constant Networks: Modularity

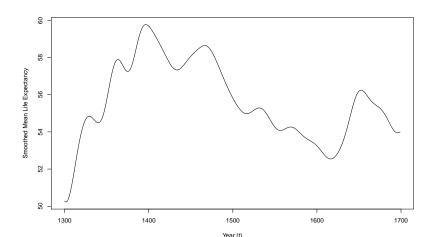


Time-Constant Networks: Authority



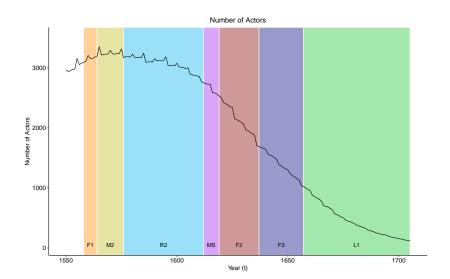
Time-Varying Networks: Graphics

▶ We define the time-varying network at time-point t as the network including all actors whose birth lies within a 35-year radius of t



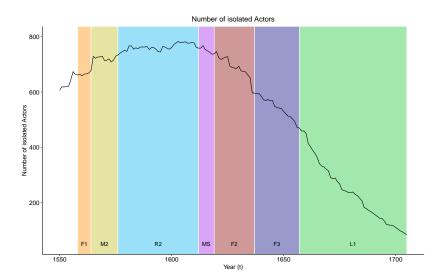
Time-Varying Networks: Number of Actors





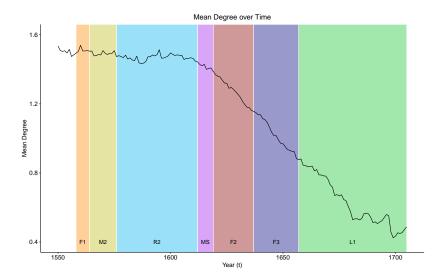
Time-Varying Networks: Number of Isolates





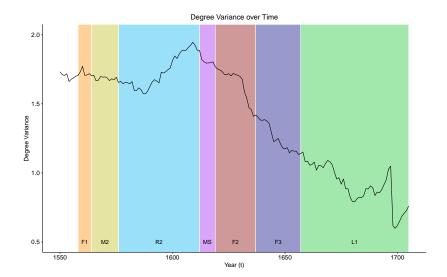
Time-Varying Networks: Mean Degree





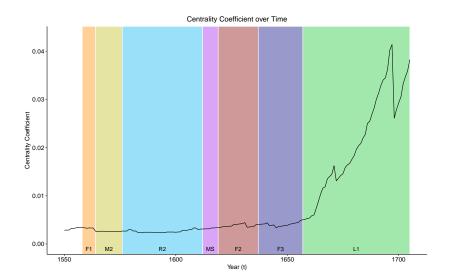
Time-Varying Networks: Degree Variance





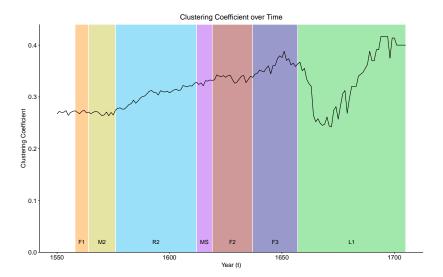
Time-Varying Networks: Centrality





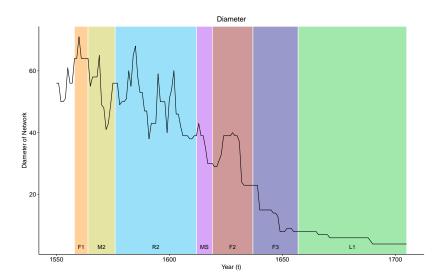
Time-Varying Networks: Transitivity





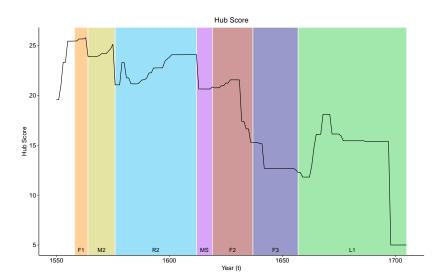
Time-Varying Networks: Paths





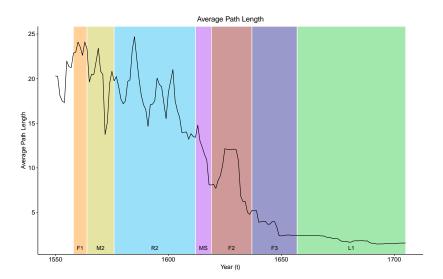
Time-Varying Networks: Paths





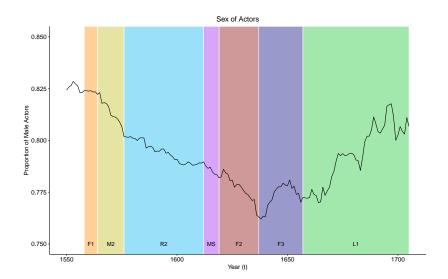
Time-Varying Networks: Paths





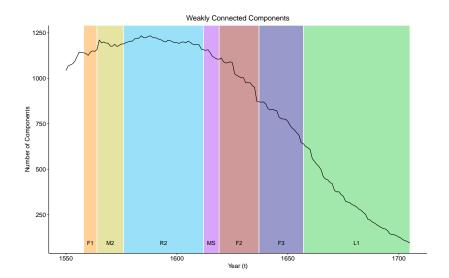
Time-Varying Networks: Sex of Actors





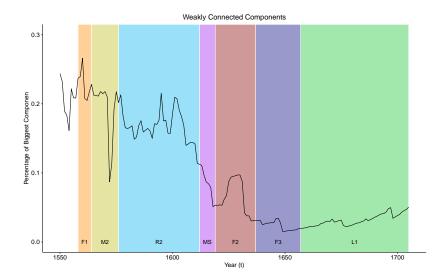
Time-Varying Networks: Components





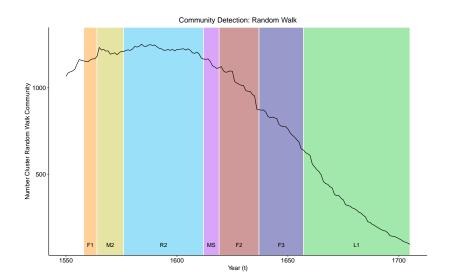
Time-Varying Networks: Components





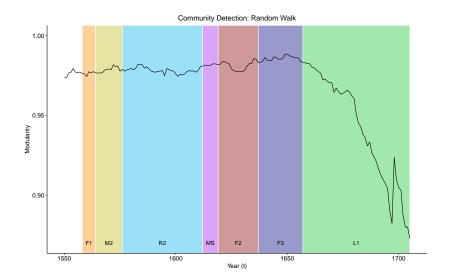
Time-Varying Networks: Community Detection





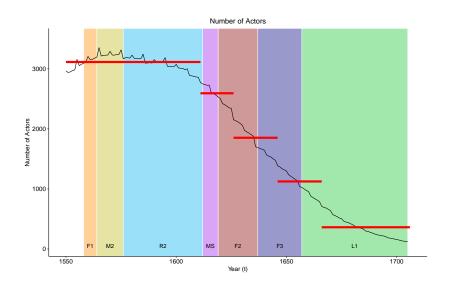
Time-Varying Networks: Community Detection





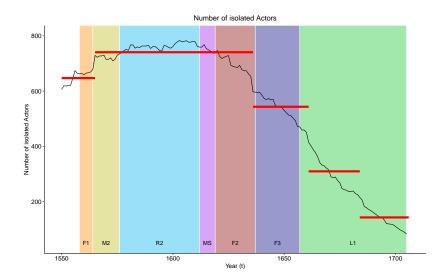
Change Point Detection: Number of Actors





Change Point Detection: Number of Isolates





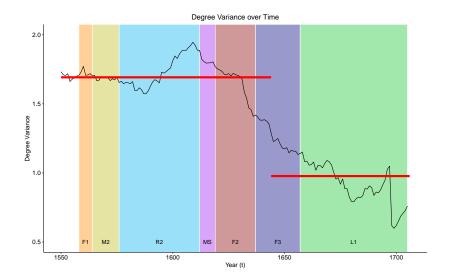
Change Point Detection: Mean Degree





Change Point Detection: Degree Variance



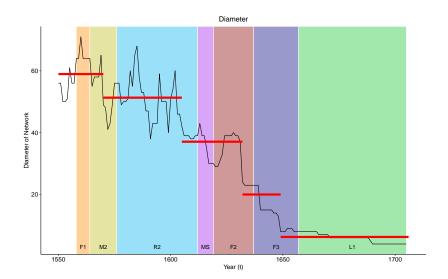


Change Point Detection: Components

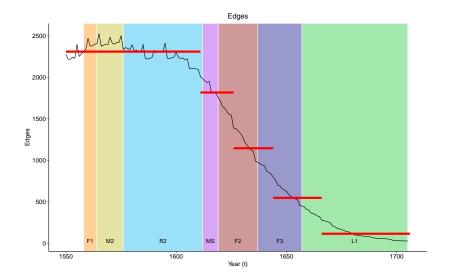




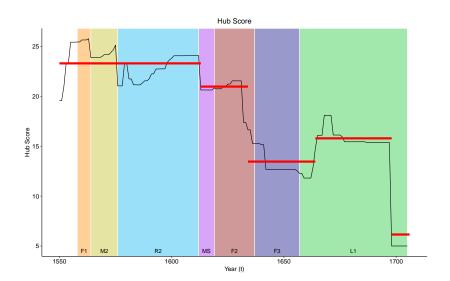




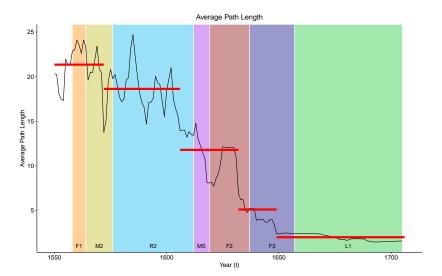




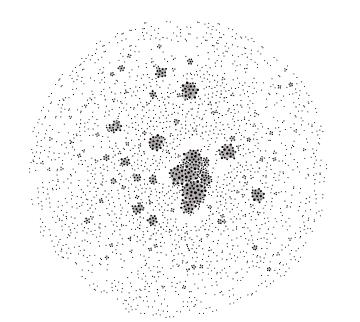








Time-Varying Networks



Time-Varying Networks

