



FH Salzburg

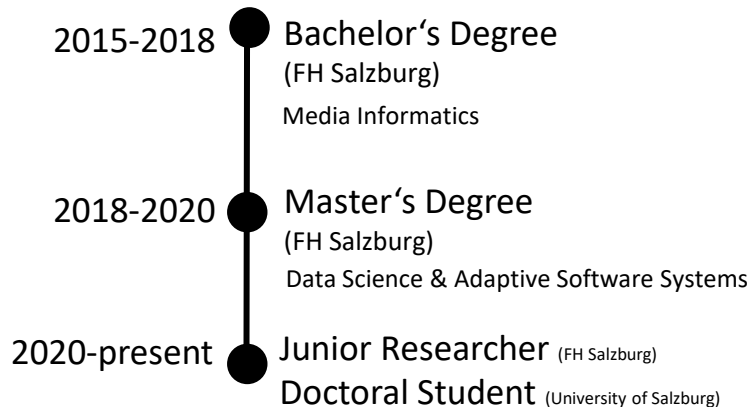
## Reuf Kozlica

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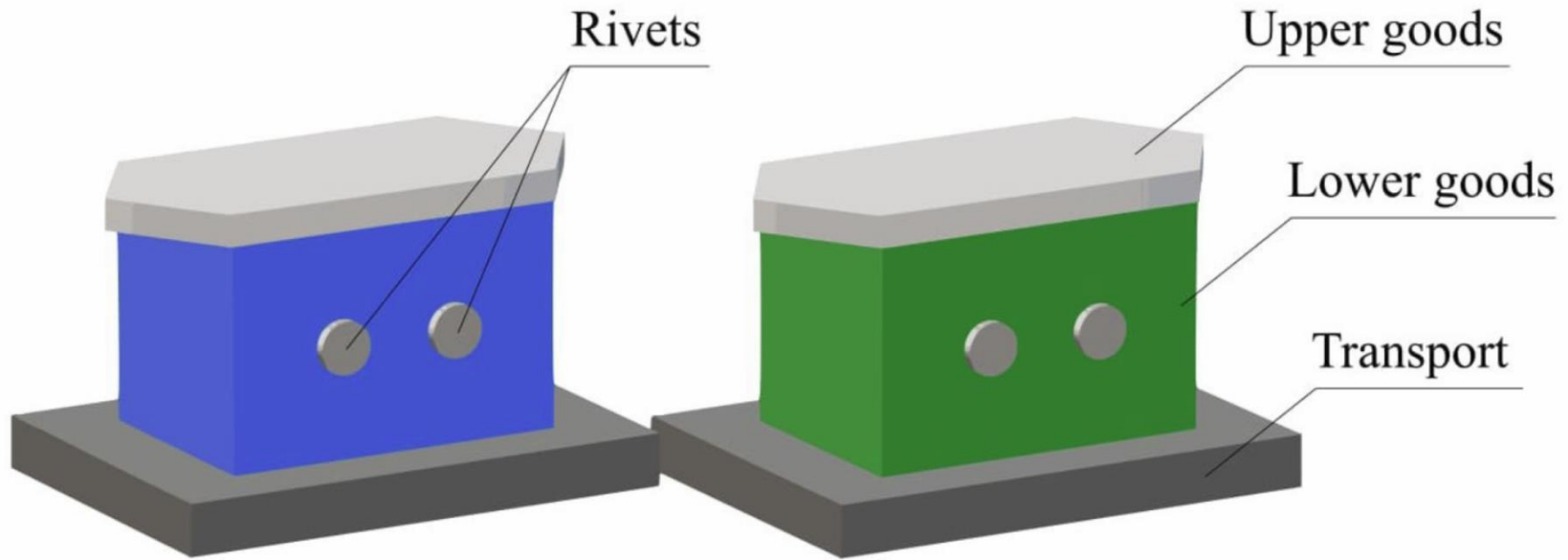


### Involvement in RL:

- Reinforcement Learning in Production Plants
  - Automatic assembly and sorting of products
- Teaching-Assistant

### I'm interested in:

- Advanced RL algorithms with focus on hierarchical methods
- Robustness and scalability of RL algorithms
- Deployment of RL algorithms to real world tasks and architectures

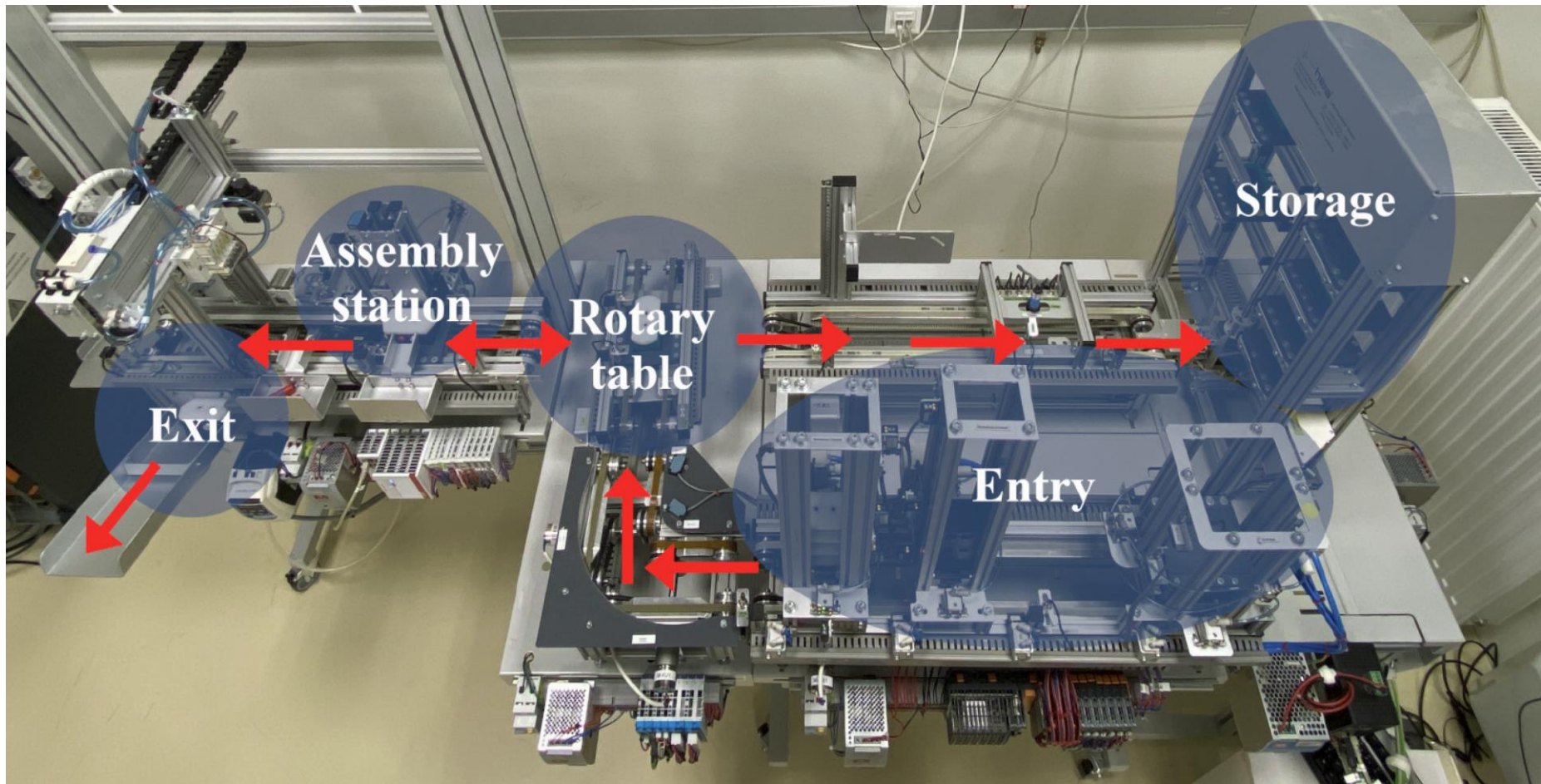


Rivets

Upper goods

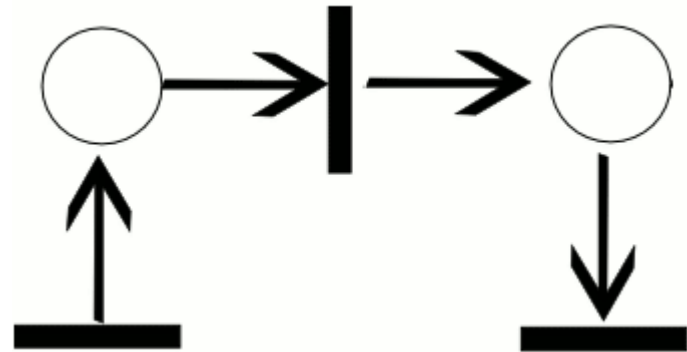
Lower goods

Transport

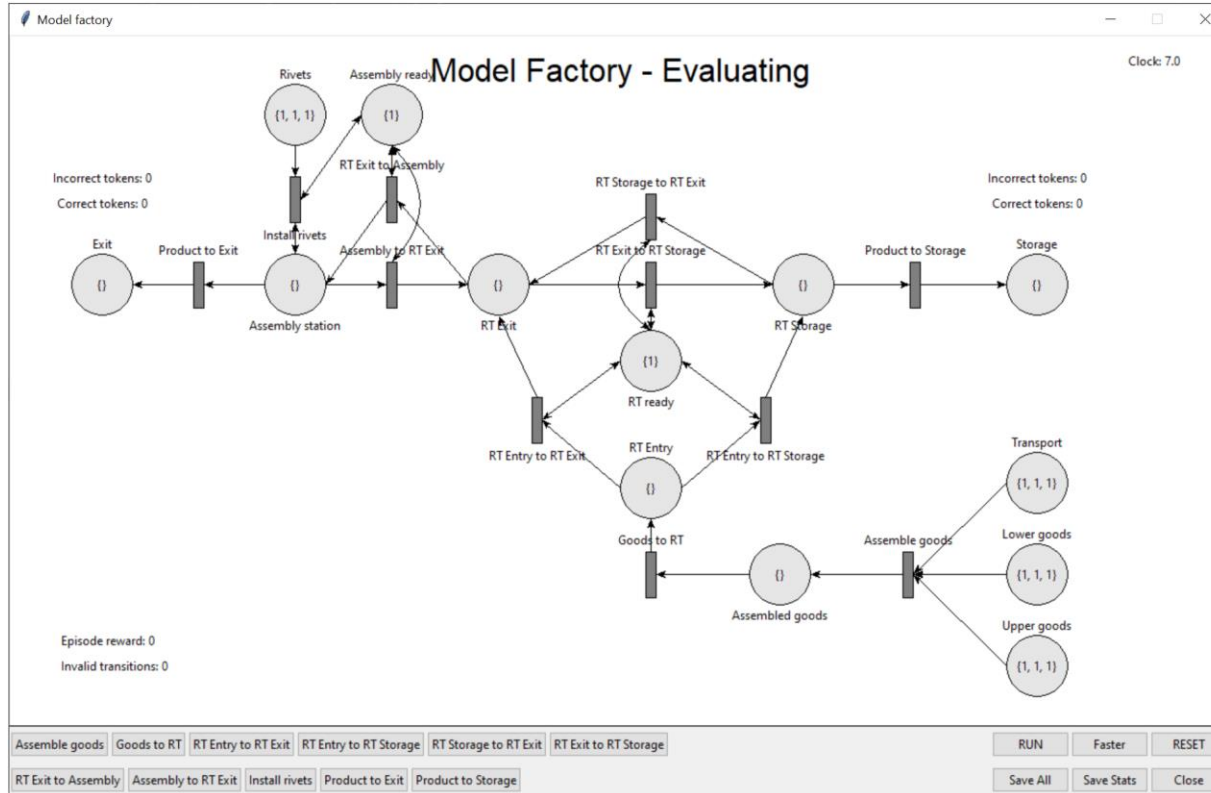


# Petri Nets as a Simulation

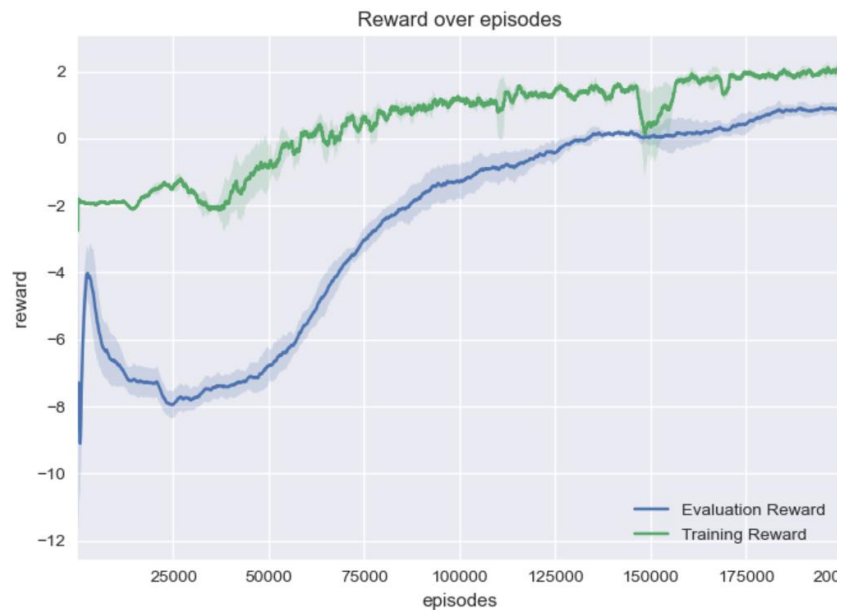
- Mathematical modeling language
- Directed bipartite graph:
  - Places
  - Transitions
  - Arcs
  - Tokens
- Graphical notation for stepwise processes
- Application areas:
  - Process modeling
  - Control engineering
  - Simulation etc.



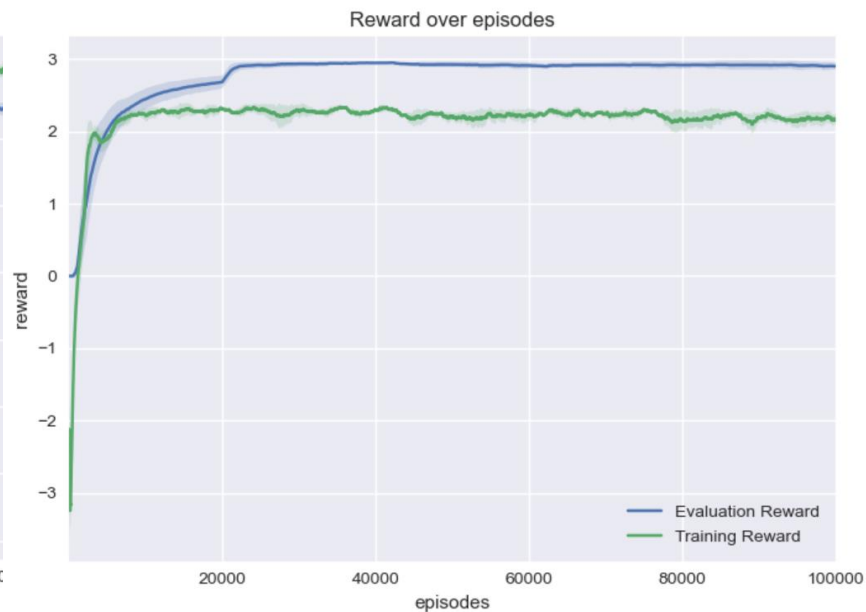
# Petri Nets as a Simulation



# Deep Q-Learning and PPO results



DQN



PPO