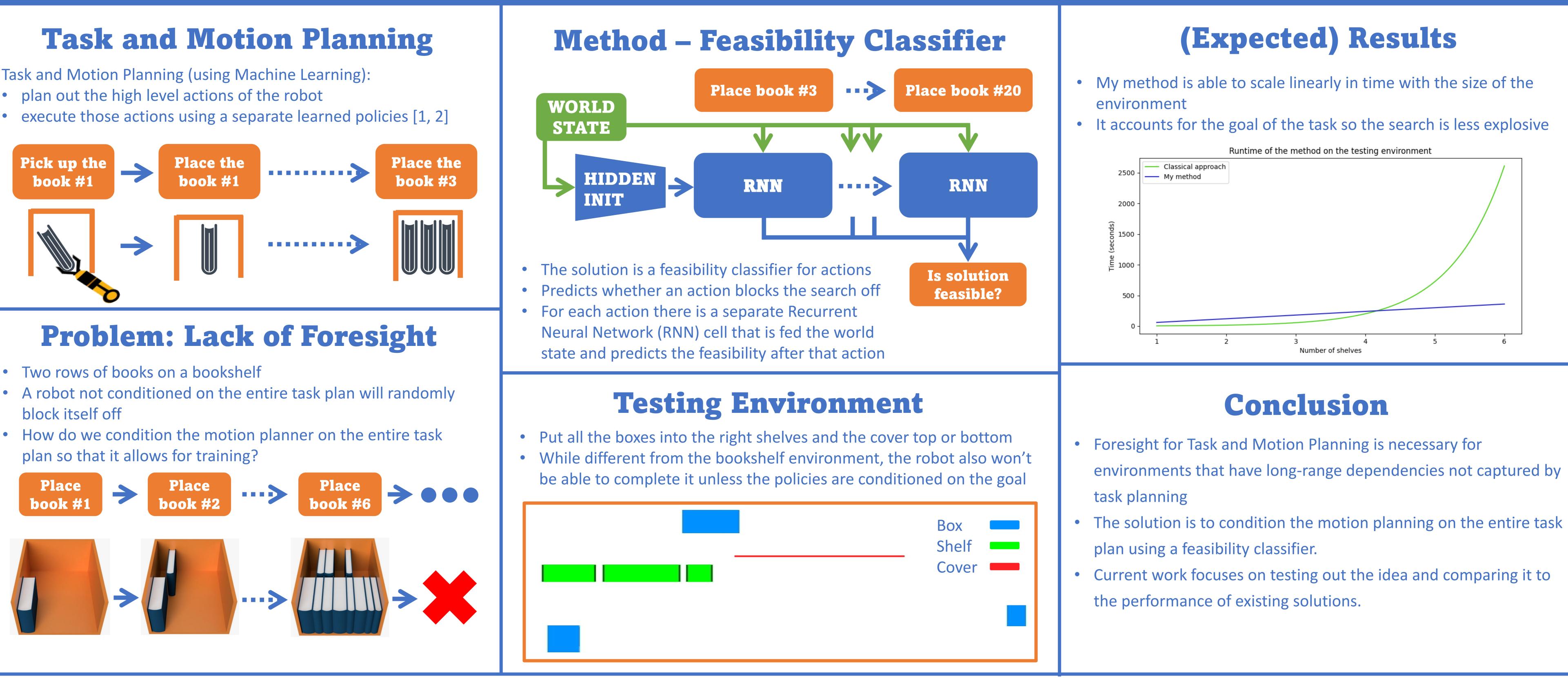
## Foresight for Learning-based Task and Motion Planning

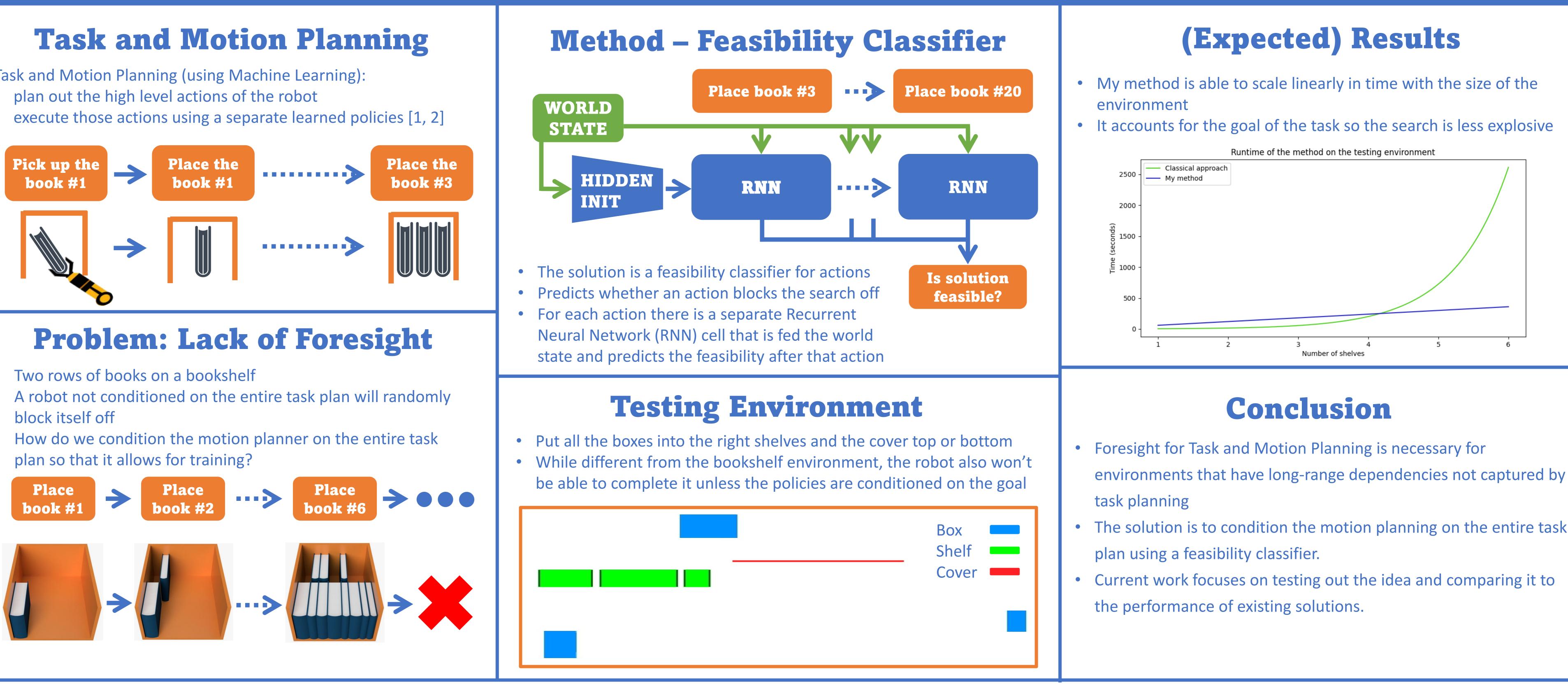
**Bartłomiej Cieślar**, Jorge Mendez The Learning & Intelligent Systems Group

Task and Motion Planning (using Machine Learning):

- plan out the high level actions of the robot
- execute those actions using a separate learned policies [1, 2]



- Two rows of books on a bookshelf
- How do we condition the motion planner on the entire task



[1] Garrett, Caelan Reed, et al. "Integrated task and motion planning." Annual review of control, robotics, and autonomous systems 4 (2021): 265-293.

[2] Chitnis, Rohan, et al. "Learning neuro-symbolic relational transition models for bilevel planning." 2022 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). IEEE, 2022.

