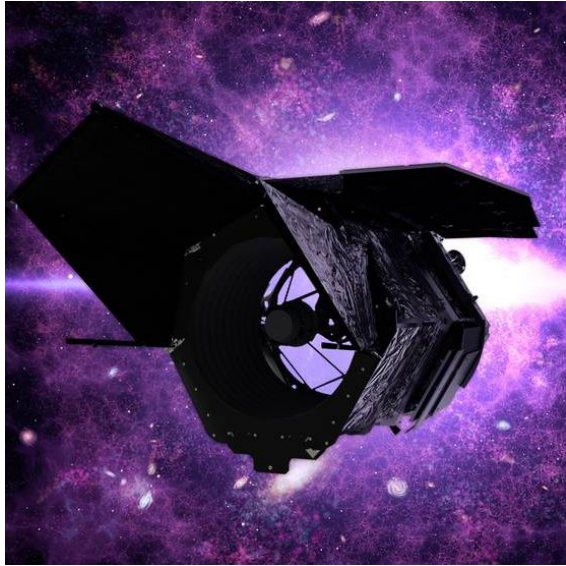


Distinguishing formation conditions of rocky planets with Roman

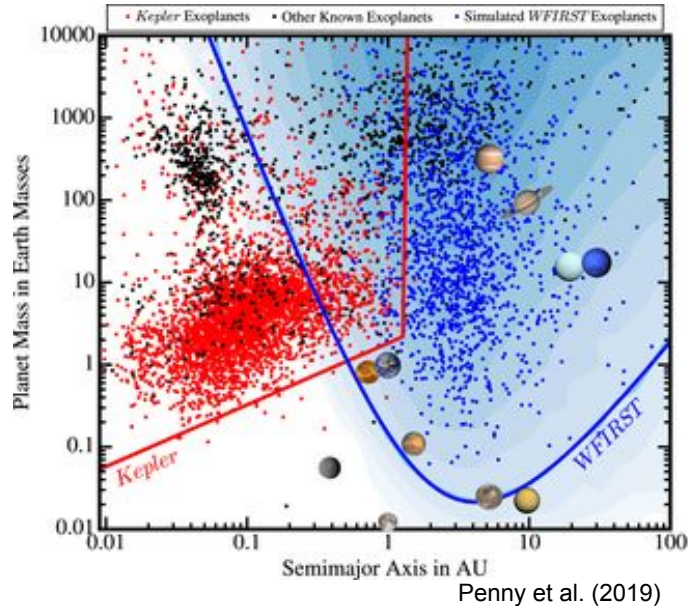
Vincent Savignac

Supervised by Eve J Lee

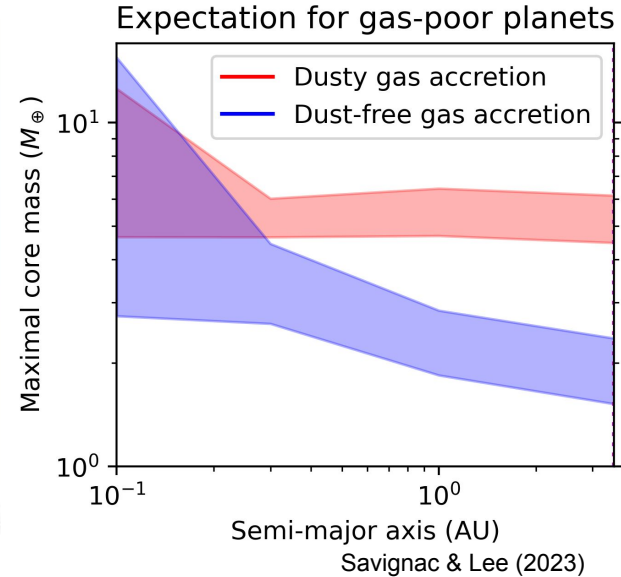
McGill University



- Nancy Grace Roman Space Telescope (Roman)
- Set to launch before May 2027
- Search for extra-solar planets using gravitational microlensing



- Uniquely capable of probing masses as low as $\sim 0.01M_{\oplus}$ at a few AU
- First window into the distribution of small rocky planets past 1 AU



- Future comparison with theoretical predictions will be able to distinguish between different formation conditions