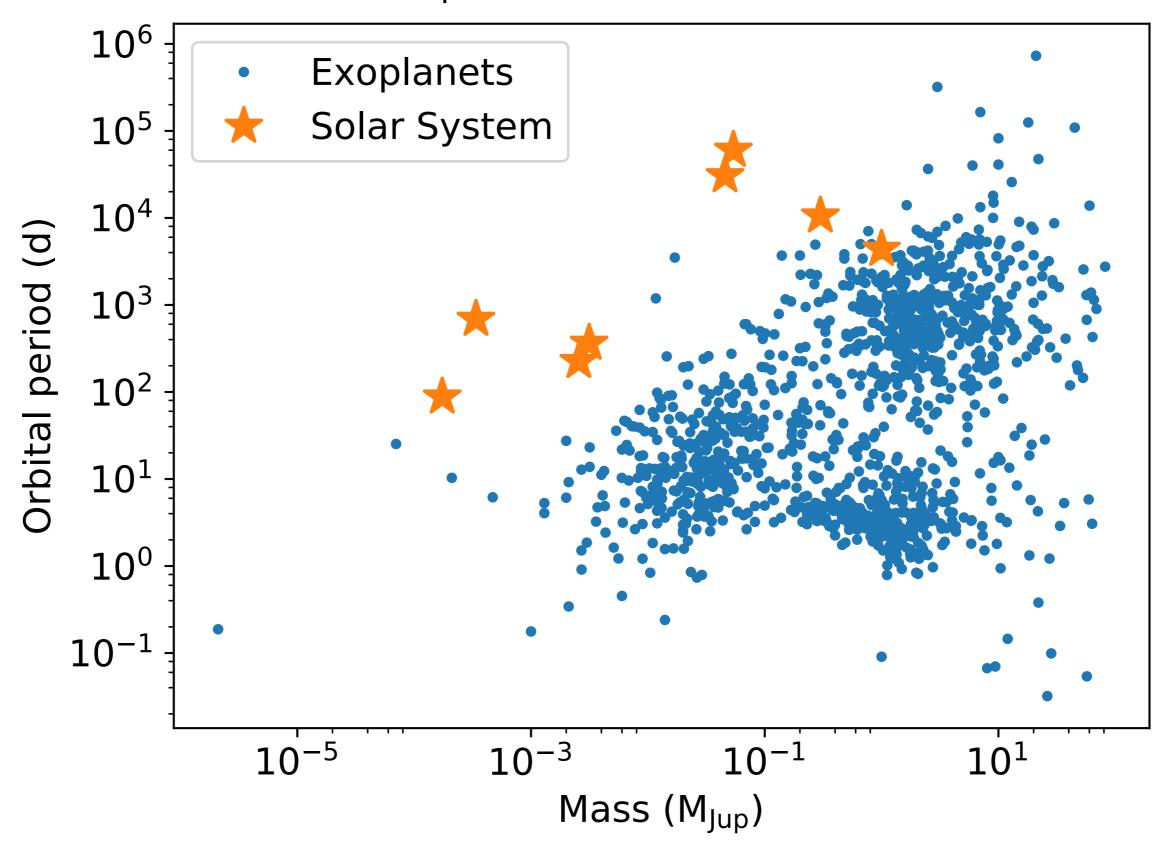


Stars with a spin: old but still kicking

Leonardo A. dos Santos

Exoplanets are weird



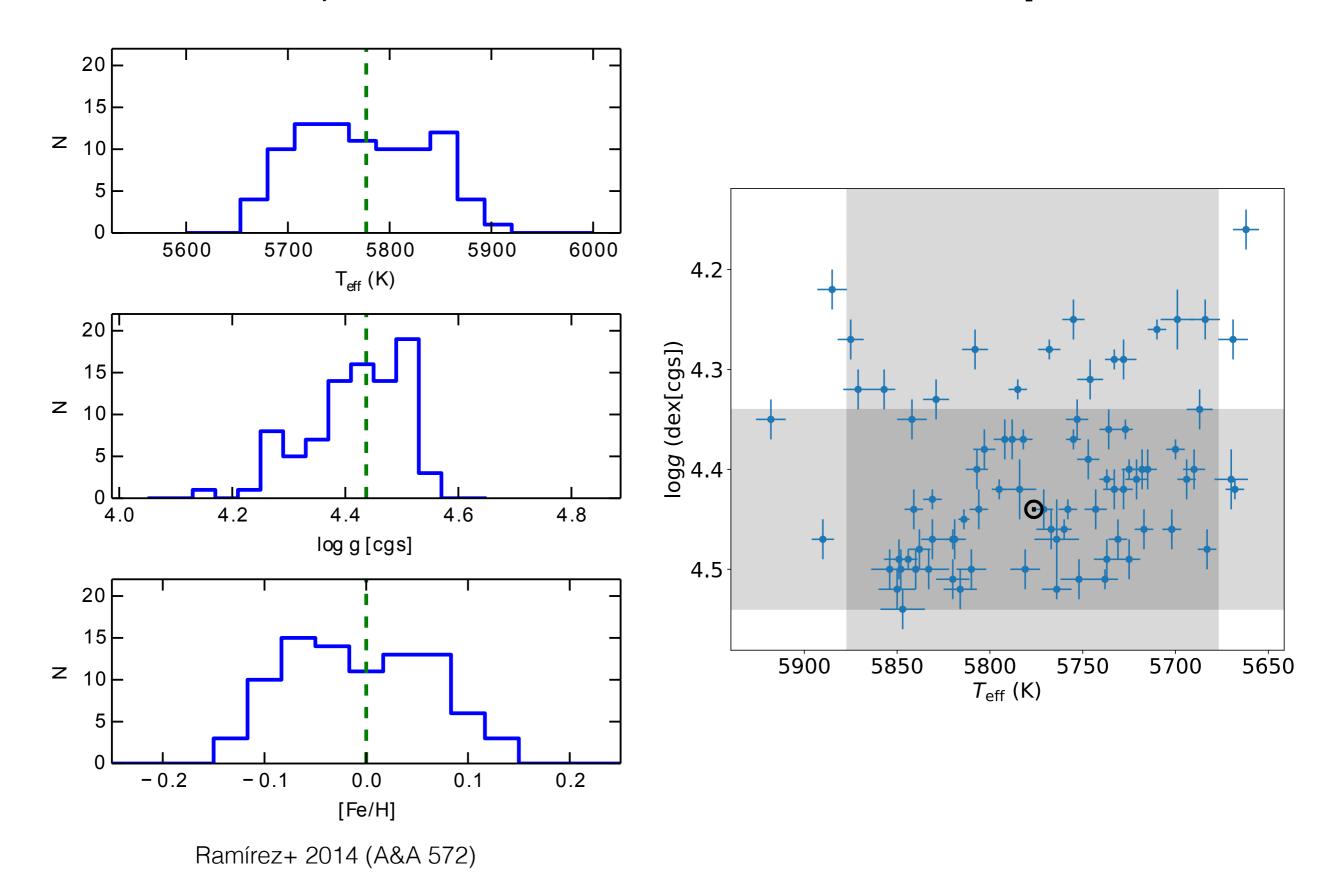
As of April 24th, 2017. Source of data: exoplanets.eu portal

Is the Solar System unique?

Is there something different in the Sun when compared to similar stars?

I am particularly interested in finding if the Sun is a typical rotator.

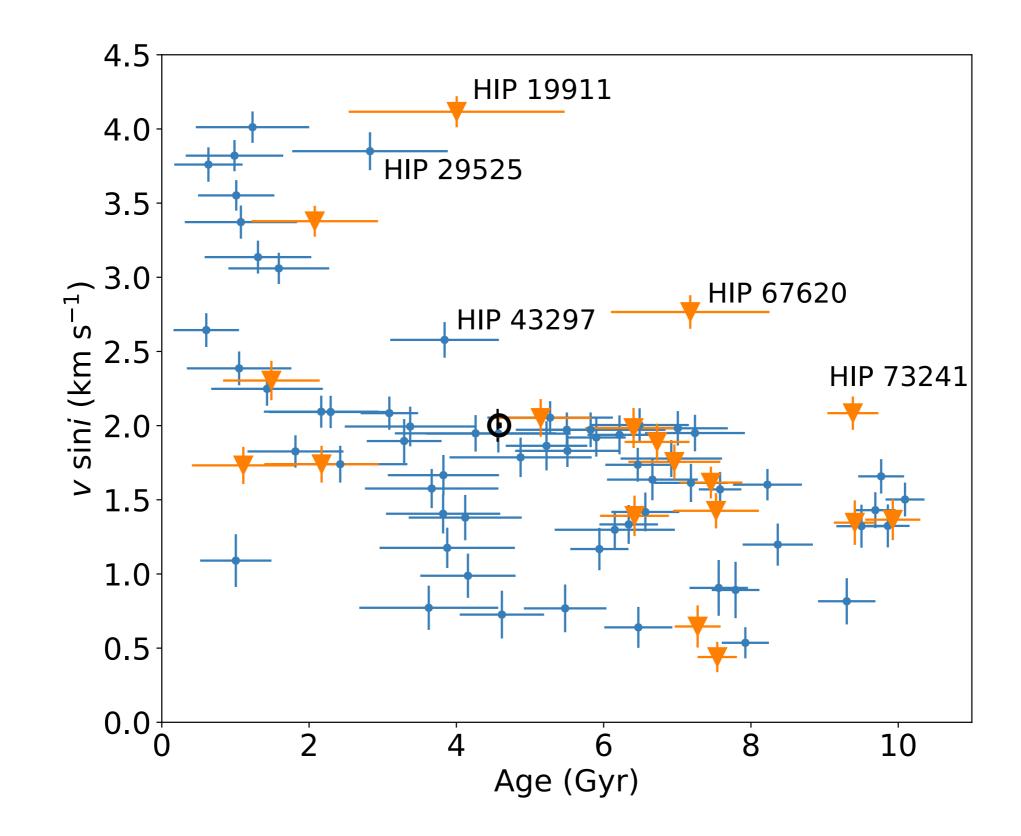
Stellar parameters derived from MIKE spectra

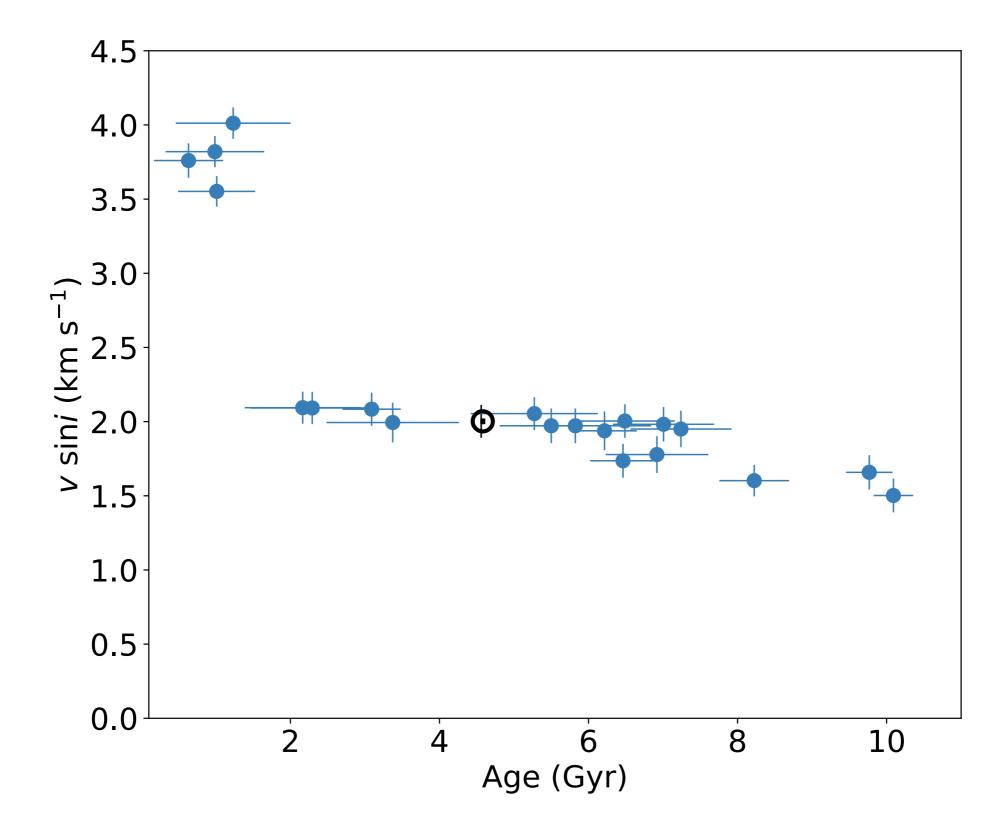


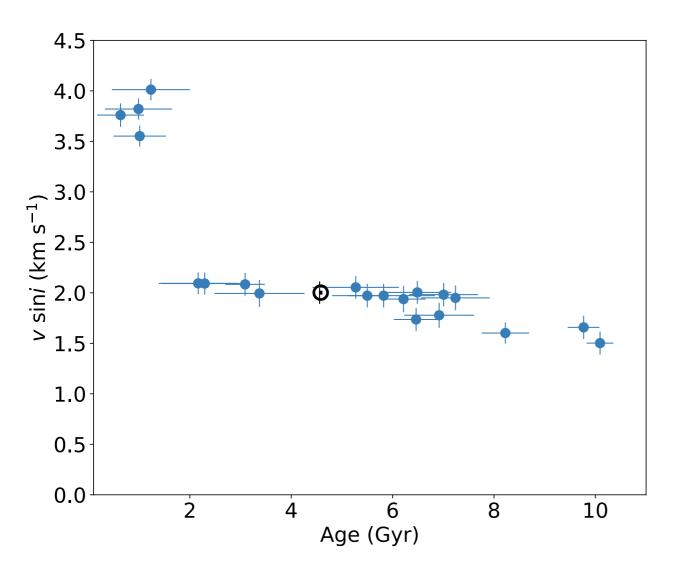
Stellar parameters: MIKE@Magellan 6.5 m telescope







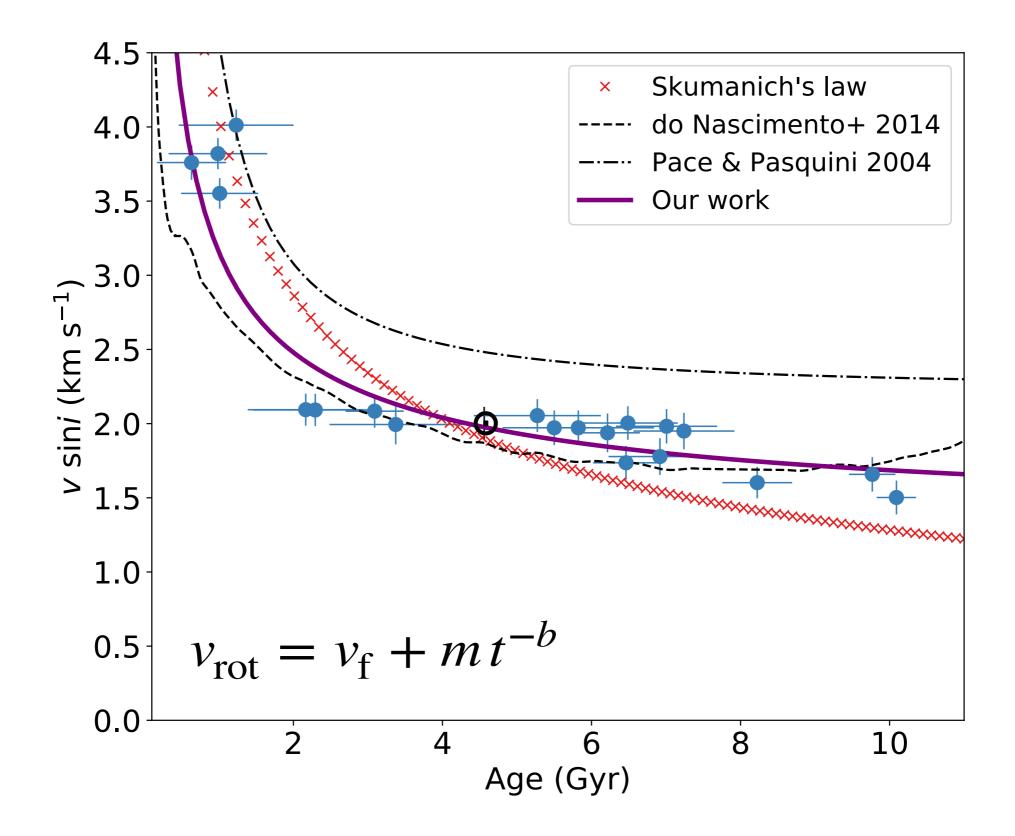


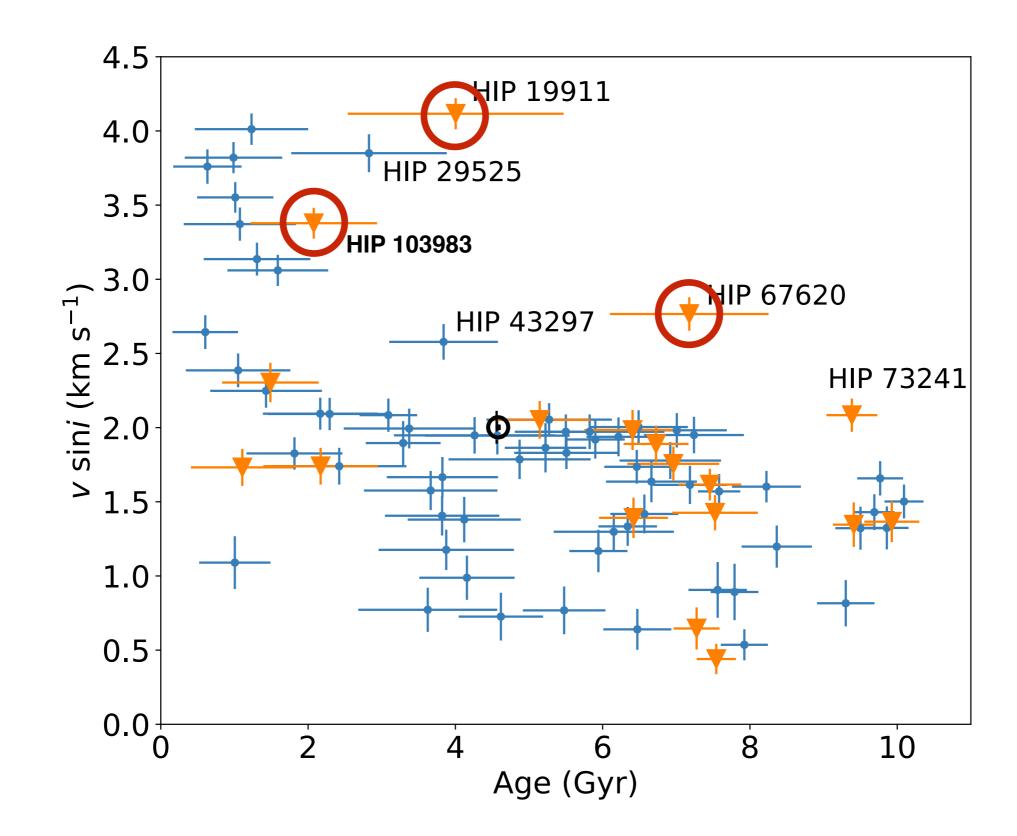


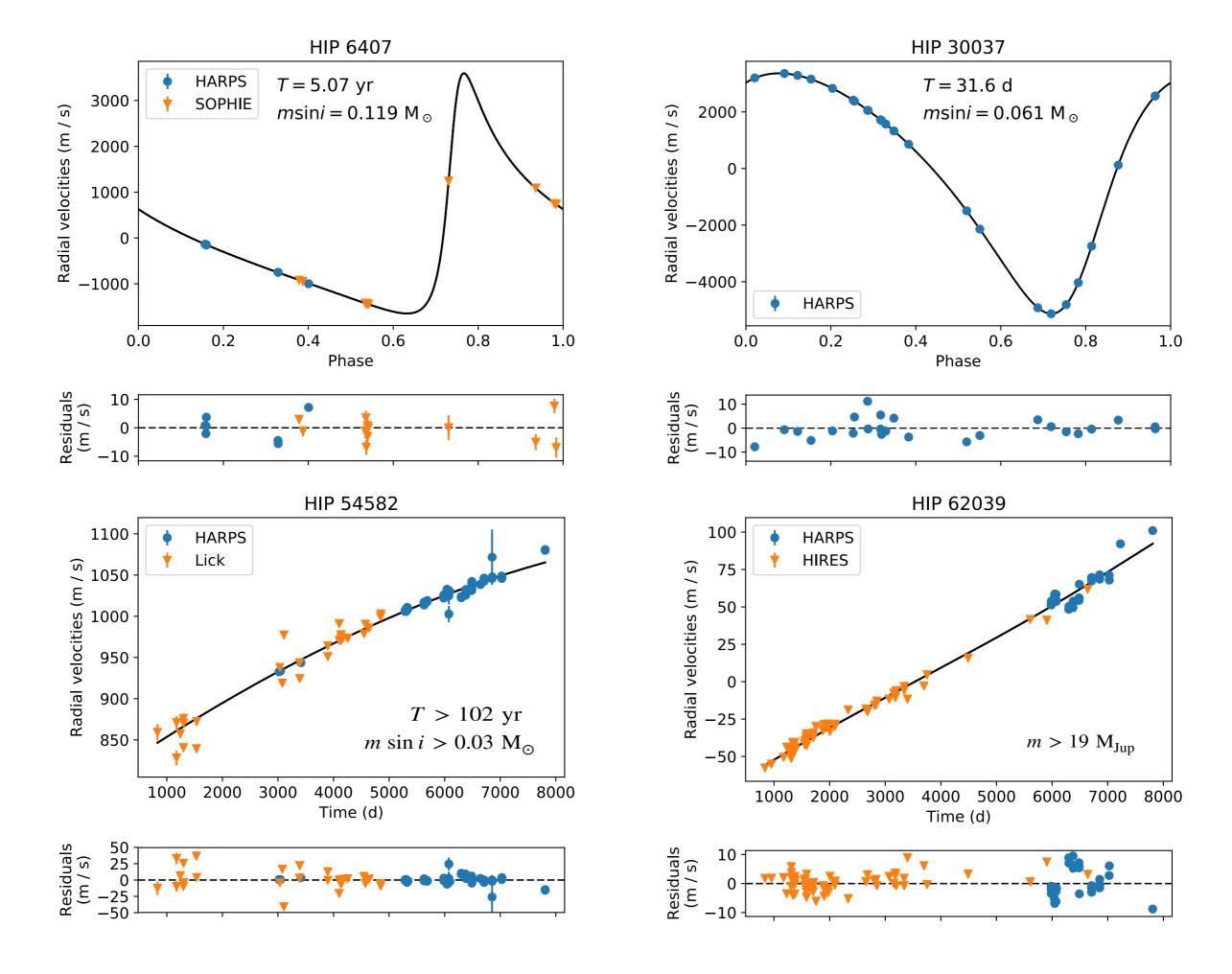
The Sun is indeed a regular rotator for its age

No need for anthropic reasoning

Good for gyrochronology







Take home messages

- 1. The Sun is indeed a regular rotator for its age
- 2. Solar twins **do not follow** Skumanich's law
- 3. **Binary companions** do not affect rotational evolution in moderate orbital periods

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