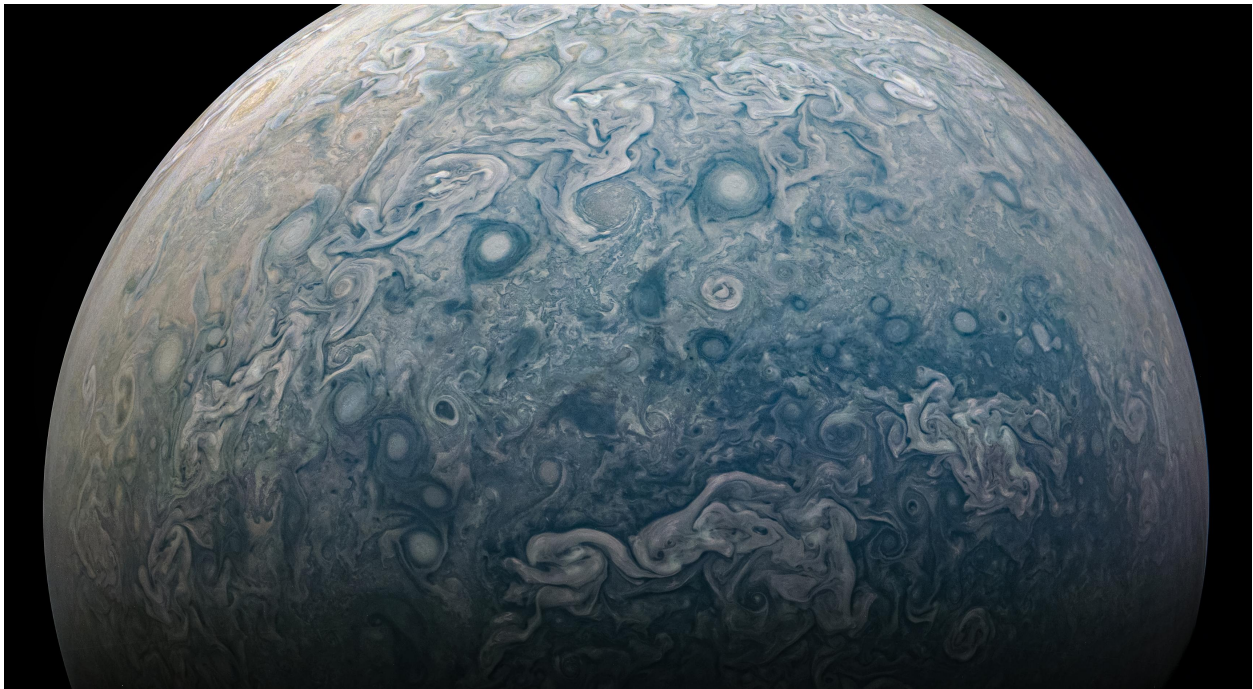


# Astronomy 5 Lecture Notes

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## 1 4/2/2024 lecture

Professor Michael Rich has office hours at 1pm on Wednesday. Denyz Melchor has office hours 12pm on Mondays at Knudsen 3145P. Her email is [denyzamelchor@g.ucla.edu](mailto:denyzamelchor@g.ucla.edu)

### 1.1 Extremophiles

Lost of the simplest organisms on Earth live near deep sea vents, including “smokers”, which have never been found anywhere except around those vents. One of the most common organisms on Earth is cyanobacteria, which are responsible for putting diatomic oxygen gas in our atmosphere.

If life is found on other planets, we hypothesize that they are single-celled, like bacteria.

There is no research to actually look for extraterrestrial life, but there is research on exoplanets. Unfortunately, exoplanets are very hard to observe.

**Problem 1.1.** This is a problem

**Example 1.2.** This is an example

**Proposition 1.3.** This is a proposition

**Theorem 1.4.** This is a theorem

**Corollary 1.5.** This is a corollary

**Lemma 1.6.** This is a lemma

*Proof.* This is a proof

□

**Note.** This is a note