

# 1 Introduction

## 1.1 About the instructor

**Dr. JJ Kavelaars (JJ)**

### Contact info

email: [jjk@uvic.ca](mailto:jjk@uvic.ca) Office: Elliott 409 Office hours: Tue & Fri 1:00PM — 2:00PM

Class times: Tue & Fri 2:30PM — 4:00PM

- Astronomer at NRC-Herzberg.
- Main office is at observatory on West Saanich Rd.
- On campus on Tuesday afternoon and all day Friday.
- Study the structure of the outer solar system.
- Science guidance to the Canadian Astronomy Data Centre.

## 1.2 Course Evaluation

### Evaluation

- 20% Mid-Term (7 Feb, in class)
- 10% class participation assignments
- 20% Problem sets.1
- 25% Term Project
  - 3% Term paper draft.
  - 15% Term paper.
  - 7% Presentation (Poster)
- 25% Final Exam

## 1.3 Textbook, notes and web.

### Content

- Text:
  - Planetary Science: The Science of Planets Around Stars.
  - by **Cole and Woolfson**.
  - Next year ASTR-255 will change to the new edition.
- Web: [Course Spaces](#) We will use the university course spaces for assignments, distribution of notes, record of grades. etc.
- Notes: I will place PDFs of the course slides onto the courses space site. Sometimes prior to lectures.

## 1.4 Course content

### Topics of this course

See the [Course Spaces](#) pages.

- Orbits and dynamics
- Radiation
- Tides
- Potentially Hazardous Asteroids
- Meteorites Meteors Meteoroids
- Terrestrial Surfaces
- Radioisotopes
- Seismology
- Gas Planets
- 2-body problem
- Exoplanets
- Planet formation