

# **EDUCADO Doctoral Training School**

## **Report of Contributions**

Contribution ID: 2

Type: **not specified**

# The fate of galaxies: from morphologies to the co-evolution of black holes and their hosts

*Monday 24 February 2025 09:30 (1h 30m)*

Galaxies are the fundamental building blocks of the Universe, yet their definition and classification have evolved over time. In this lecture, I will provide a historical perspective on the definition of galaxies, followed by an overview of the Hubble sequence and the main characteristics that distinguish different galaxy types. I will present the evolutionary pathways leading to the blue and red sequences, highlighting the role of black hole–galaxy co-evolution. Finally, I will introduce the concepts of active galactic nuclei (AGN) and stellar feedback, discussing their impact on galaxy evolution within the framework of cosmological simulations.

**Presenter:** AUDIBERT, Anelise

**Session Classification:** Galaxy Formation and Evolution

Contribution ID: 3

Type: **not specified**

## Observational Challenges

*Monday 24 February 2025 11:30 (45 minutes)*

**Presenter:** TRUJILLO, Nacho

**Session Classification:** Observing techniques and surveys

Contribution ID: 4

Type: **not specified**

## Observational Techniques

*Monday 24 February 2025 12:15 (45 minutes)*

**Presenter:** TRUJILLO, Nacho

**Session Classification:** Observing techniques and surveys

Contribution ID: 5

Type: **not specified**

# **Milky Way structure, Galactic Archeology and Stellar Ages**

*Monday 24 February 2025 14:00 (1h 30m)*

**Presenter:** MAGRINI, Laura

**Session Classification:** Structure of our Milky Way and external Galaxies

Contribution ID: 6

Type: **not specified**

## **The Milky Way Disk: kinematics and structure**

*Monday 24 February 2025 16:00 (1h 30m)*

**Presenter:** ANTOJA, Teresa

**Session Classification:** Structure of our Milky Way and external Galaxies

Contribution ID: 7

Type: **not specified**

# Galaxy Formation and Evolution

*Tuesday 25 February 2025 09:30 (1h 30m)*

**Presenter:** MARASCO, Antonino

**Session Classification:** Galaxy Formation and Evolution

Contribution ID: 8

Type: **not specified**

## **Chemical Evolution of the Milky Way and nearby galaxies**

*Tuesday 25 February 2025 11:30 (1h 30m)*

**Presenter:** ROMANO, Donatella

**Session Classification:** Structure of our Milky Way and external Galaxies



Contribution ID: 9

Type: **not specified**

## Spectroscopic surveys of stars

*Tuesday 25 February 2025 14:00 (1h 30m)*

We always say that we live in the era of large surveys and massive datasets. I will briefly present the case of spectroscopic surveys of stars, in the Milky Way and in its satellites. We will see what is available and how we can use the wealth of observational data, showing some examples. In particular, I will focus on stellar clusters, a sweet spot for astrophysics.

**Presenter:** BRAGAGLIA, Angela

**Session Classification:** Observing techniques and surveys

Contribution ID: **10**

Type: **not specified**

## **Introduction to Astroinformatics**

*Tuesday 25 February 2025 16:00 (1h 30m)*

**Presenter:** CANDUCCI, Marco

**Session Classification:** Astro-Informatics Techniques

Contribution ID: 11

Type: **not specified**

## Visit to Asiago observatory

*Wednesday 26 February 2025 09:00 (7h 30m)*

Packed lunch pick up at 9:00 at the Observatory.

9:30 Bus departs to Asiago

16:30 Bus returns to Observatory (earlier if snowy/icy conditions on the mountain)

**Session Classification:** Visit to Padova Observatory tower and museum, trip to Asiago Observatory

Contribution ID: 12

Type: **not specified**

## **Guided tour of the Observatory Museum and Tower**

*Wednesday 26 February 2025 16:30 (1h 30m)*

**Session Classification:** Visit to Padova Observatory tower and museum, trip to Asiago Observatory

Contribution ID: 13

Type: **not specified**

## **Multi-purpose deep imaging surveys (LSST, Euclid, etc)**

*Thursday 27 February 2025 09:30 (45 minutes)*

**Presenter:** KNAPEN, Johan

**Session Classification:** Observing techniques and surveys

Contribution ID: 14

Type: **not specified**

## **Dedicated surveys (LIGHTS, etc)**

*Thursday 27 February 2025 10:15 (45 minutes)*

**Presenter:** TRUJILLO, Nacho

**Session Classification:** Observing techniques and surveys

Contribution ID: 15

Type: **not specified**

## **Green Computing**

*Thursday 27 February 2025 11:30 (1h 30m)*

**Presenter:** KOZLOV, Oleksiy

**Session Classification:** Green Computing

Contribution ID: 16

Type: **not specified**

## **Hands-on project introduction and group work**

*Thursday 27 February 2025 14:00 (1h 30m)*

**Presenters:** RAJ, Angela; CANDUCCI, Marco

**Session Classification:** Astro-Informatics Techniques



Contribution ID: 17

Type: **not specified**

## **Group work and final reporting**

*Thursday 27 February 2025 16:00 (1h 30m)*

**Presenters:** RAJ, Angela; CANDUCCI, Marco

**Session Classification:** Astro-Informatics Techniques

Contribution ID: **18**

Type: **not specified**

## **Unconscious bias**

*Friday 28 February 2025 09:30 (45 minutes)*

**Presenter:** LUCATELLO, Sara (Istituto Nazionale di Astrofisica (INAF))

**Session Classification:** Diversity, Equity and Inclusion

Contribution ID: **19**

Type: **not specified**

## **Interactive session**

*Friday 28 February 2025 10:15 (45 minutes)*

**Session Classification:** Diversity, Equity and Inclusion

Contribution ID: 20

Type: **not specified**

## **Professional ethics, introduction, discussion and interactive activities**

*Friday 28 February 2025 11:30 (1h 30m)*

**Presenter:** KNAPEN, Johan

**Session Classification:** Ethics