## Bianca-Iulia Ciocan

#### **PHD STUDENT**

University of Vienna, Department of Astrophysics, Türkenschanzstrasse 17, 1180, Vienna, Austria
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I am a fourth year Prae-Doc university assistant in the Observational Extragalactic Astrophysics research group at the University of Vienna, Department of Astrophysics. My main research focus is galaxy formation and evolution, with a special emphasis on galaxies located in high-density environments, such as galaxy clusters. I mainly use 3D spectroscopic observations in conjunction with other multi-wavelength data to study the interplay between galaxy evolution and the environment. I am also involved in teaching and supervising students.

### Education\_

#### **PhD Astrophysics**

University of Vienna, Department of Astrophysics

23.04.2019-present

• Supervisor: Univ. Prof. Dr. Bodo Ziegler

#### **MSc Astrophysics**

University of Vienna, Department of Astrophysics

01.03.2017-12.04.2019

• Supervisors: Univ. Prof. Dr. Bodo Ziegler, Dr. Christian Maier

#### **BSc Astrophysics**

University of Vienna, Department of Astrophysics

01.10.2013-19.12.2016

· Supervisor: Dr. Christian Maier

## Professional Experience

2019-2023 Prae-doc University Assistant, University of Vienna, Department of Astrophysics, Austria

2018-2019 Student Tutor, University of Vienna, Department of Astrophysics, Austria

2018 Study Assistant, University of Vienna, Department of Astrophysics, Austria

#### Publications\_

#### Presentations

**Ciocan**, Maier, Ziegler, 2019. "CLASH-VLT: Enhancement of (O/H) in z=0.35 RXJ 2248-4431 cluster galaxies". Oral presentation at conference: The Art of Measuring Galaxy Physical Properties, Milan, Italy, 18.11.2019 - 22.11.2019.

Ciocan, Ziegler, 2020. Poster at conference: European Astronomical Society annual meeting, online, 29.06.2020 - 03.07.2020.

Ciocan, Maier, 2020. Poster at conference: European Astronomical Society annual meeting, online, 29.06.2020 - 03.07.2020.

<sup>&</sup>quot;Morpho-kinematics of MACS J0416.1-2403 low mass galaxies" **Ciocan**, Ziegler, Böhm et al. A&A, 667, A61 (2022)

<sup>&</sup>quot;The VLT-MUSE and ALMA view of the MACS 1931.8-2635 brightest cluster galaxy" **Ciocan**, Ziegler, Verdugo et al. A&A, 649, A23 (2021)

<sup>&</sup>quot;CLASH-VLT: Enhancement of (O/H) in z = 0.35 RX J2248-4431 cluster galaxies" **Ciocan**, Maier, Ziegler Verdugo et al. A&A, 633, A139 (2020)

<sup>&</sup>quot;Physical and kinematic conditions of the local merging galaxy NGC 1487" Buzzo, Ziegler, Amram, ..., **Ciocan** et al. MNRAS, 503, 106 (2021)

- **Ciocan**, Ziegler, 2021. Poster at conference: Multi-object Spectroscopy for Statistical Measures of Galaxy Evolution, online, 17.05.2021 20.05.2021.
- Ciocan, Ziegler, 2021. Poster at conference: European Astronomical Society annual meeting, online, 28.06.2021 02.07.2021.
- **Ciocan**, Ziegler, 2021. Poster at winter school: XXXII Canary Islands Winter School of Astrophysic, San Cristóbal de La Laguna, Spain, 23.11.2021 01.12.2021.
- **Ciocan**, Ziegler, 2021. Talk in reasearch group of Dr. Dannerbauer, Instituto de Astrofísica de Canarias, San Cristóbal de La Laguna, Spain, 02.12.2021.
- **Ciocan**, Ziegler, 2022. Poster at conference: Multi-line Diagnostics of the Interstellar Medium, Nice, France, 04.04.2022 06.04.2022.
- Ciocan, Ziegler, 2022. Poster at conference: Galaxy Clusters 2022 Virtual Conference, online, 25.04.2022 29.04.2022.
- Ciocan. One talk per semester in the COSMOS PhD Seminar at the Department of Astrophysics, University of Vienna.

## Teaching Experience

- VU "Astrophysics II", Student Tutor, University of Vienna, Department of Astrophysics, 10.2018-02.2019
- VU "Astrophysics II", Teaching Assistant, University of Vienna, Department of Astrophysics, 10.2019-02.2020
- VU "Early Universe", Teaching Assistant, University of Vienna, Department of Astrophysics, 03.2020-09.2020
- VU "Astrophysics II", Teaching Assistant, University of Vienna, Department of Astrophysics, 10.2020-02.2021
- VU "Extragalactic Astrophysics", Teaching Assistant, University of Vienna, Department of Astrophysics, 03.2021-09.2021
- **SE "Bachelor Seminar on Astronomy"**, Thesis Supervisor, University of Vienna, Department of Astrophysics, 03.2021-09.2021
- VU "Astrophysics II", Teaching Assistant, University of Vienna, Department of Astrophysics, 10.2021-02.2022
- VU "Early Universe", Teaching Assistant, University of Vienna, Department of Astrophysics, 03.2022-09.2022
- **SE "Bachelor Seminar on Astronomy"**, Thesis Supervisor, University of Vienna, Department of Astrophysics, 03.2022-09.2022
- VU "Astrophysics II", Teaching Assistant, University of Vienna, Department of Astrophysics, 10.2022-present

## Mentoring\_

- 2021 M. Koller, Bachelor Thesis Supervisor, University of Vienna, Department of Astrophysics
- 2022 M. Haase, Bachelor Thesis Supervisor, University of Vienna, Department of Astrophysics
- 2022 A. Neyer, Bachelor Thesis Supervisor, University of Vienna, Department of Astrophysics
- 2022 M. Koller, Master Thesis Co-supervisor, University of Vienna, Department of Astrophysics

### Research Experience \_\_\_\_\_

# PhD Thesis: "The spatially resolved properties of galaxies in environments of clusters at their peak assembly epoch"

SUPERVISOR: UNIV. PROF. DR. BODO ZIEGLER

University of Vienna

2019 - present

## Master's Thesis: "The slow quenching of CLASH RXJ2248-4431 cluster galaxies as traced by their gas-phase metallicities"

Supervisor: Univ. Prof. Dr. Bodo Ziegler, Dr. Christian Maier

University of Vienna

2018-2019

University of 2015-2016	Vienna
Skills	
Languages	
Romanian: na	ative
English: adva	nced
German: adv	anced
COMPUTING	EXPERIENCE
Programming	g language: Python (advanced level), R (beginner level)
pipeline ( (Arnouts	An and analysis tools: ESORex, ESOReflex, Gasgano, ESO-MUSE pipeline (Weilbacher et al. 2020), ESO-SINFONI (Modigliani et al. 2007), Molecfit (Smette et al. 2015), ESO-MIDAS, VIPGI (Scodeggio et al. 2005), IRAF, LePHARE and Ilbert et al. 2011), FADO (Gomes and Papaderos 2016), Galpak3D (Bouche 2015), GIST (Bittner 2019), ppxf ari 2017), Galfit (Peng et al. 2002), Sextractor (Bertin and Arnouts 1996), SAOImageDS9, QFitsView, Topcat,
Writing langu	nages and editors: LaTex, Microsoft Office
Outreach	& Professional Development
SERVICE AND	OUTREACH
2022 2021	Working group: "New curriculum for Bachelor's and Master's programmes, University of Vienna", Committee member  Big Picture Talk Series, Vienna International School of Earth and Space Sciences,  Vienna
D=1/=1 0 0 1/=	Scientific organising committee member
DEVELOPME	
ticalities	<b>asic qualification for Junior Staff - Teaching in Higher Education</b> : The course informed about the pracof teaching at the Vienna University and assisted in course design and planning, and in the developing of a e of teaching and learning methods.
	resentation techniques and public speaking skills: The course aimed at helping us develop the necessary and delivery competencies to express our ideas, as well as techniques for the effective structuring of a pre-
	l: XXXII Canary Islands Winter School of Astrophysic - Formation and Evolution of Galaxy Clusters Across Time: Intensive courses about galaxy clusters and hands-on workshop with simulated data.
PROFESSION	ial Memberships
	eichischen Gesellschaft für Astronomie und Astrophysik) n Astronomical Society)
Reference	25

Bachelor's Thesis: "Spectral analysis of intermediate redshift galaxies"

SUPERVISOR: DR. CHRISTIAN MAIER

Univ. Prof. Dr. Bodo Ziegler, email: bodo.ziegler@univie.ac.at, Institution: University of Vienna, Austria