

Curriculum Vitae



Dichiarazione sostitutiva di certificazione e dichiarazione sostitutiva dell'atto di notorietà ai sensi del D.P.R. 445/28.12.2000
La sottoscritta Alice Mori, [redacted]
[redacted] consapevole delle responsabilità penali cui può andare incontro, in caso di dichiarazioni mendaci, ai sensi e per gli effetti di cui all'art. 76 del D.P.R. 445/2000 e consapevole che, ai sensi dell'art. 13, del Regolamento UE 2016/679 (GDPR), la presente dichiarazione sarà pubblicata sul sito web dell'amministrazione in apposita sezione di Amministrazione Trasparente, sotto la propria responsabilità, ai sensi degli artt. 46 e 47 del DPR 445/2000, dichiara

Personal information

Name / Surname
Address

Telephone
Personal Email
Nationality
Date of birth
Gender

Alice Mori

[redacted]
[redacted]
[redacted]
[redacted]
[redacted]
[redacted]
[redacted]

Positions

Nov 2022 - now

Sep-Dec 2023

Ph.D. in Physics and Astronomy (cycle XXXVIII)
Università degli Studi di Firenze (UniFi), Florence (Italy).
Curriculum: Astrophysics
Advisor: Prof. Stefania Salvadori (UniFi)
Co-advisor: Prof. Paola Di Matteo (Observatoire de Paris)
Co-advisor: Dr. Alessandra Mastrobuono-Battisti (University of Padua)
Thesis title: "Bright and dark: the accretion history of the Milky Way across scales".

Visiting Graduate Researcher
LIRA, Observatoire de Paris, Université PSL, Paris (France).
Project: "MDFs of halo stars: do they trace the galactic accretion history?".
Advisor: Prof. Paola Di Matteo (Observatoire de Paris)

Education

2019-2022

Oct 2021 - Jun 2022

2015-2019

Master's Degree in Physical and Astrophysical Sciences (LM-17)
Università degli Studi di Firenze (UniFi), Florence (Italy).
Curriculum: Theoretical Astrophysics - Galaxy Formation and Evolution
Date: 13/06/2022 (A.A. 2020/2021)
Final grade: 110/110 cum laude
Thesis title: "Searching for the building blocks of our Galaxy: clues from N-body models".
Advisor: Prof. Stefania Salvadori (UniFi)
Co-advisor: Prof. Paola Di Matteo (Observatoire de Paris)

Erasmus+ Traineeship Program
GEPI, Observatoire de Paris, Université PSL, Paris (France).
Title: "Characterisation of Gaia Sausage-Enceladus, the last massive merger of the Galaxy".
Advisor: Prof. Paola Di Matteo (Observatoire de Paris)

Bachelor's Degree in Physics and Astronomy (LM-30)
Università degli Studi di Firenze (UniFi), Florence (Italy).
Date: 16/04/2019 (A.A. 2017/2018)
Final grade: 103/110
Thesis title: "Hubble diagram for Gamma Ray Bursts and Quasars".
Advisor: Prof. Guido Risaliti (UniFi)

Publications

orcid: 0009-0003-0816-2880

- 2025 **Chemical decoding of kinematic substructures in the Galactic halo**
Mori A., Di Matteo P., Salvadori S., Mondelin M., Khoperskov S., Haywood M., Mastrobuono-Battisti A., *A&A* (2025), *subm.*, *arxiv: 2509.13408*.
- 2025 **Evidence of Gaia Enceladus experiencing several passages around the Milky Way**
Skúladóttir Á., Ernandes H., Feuillet D. K., Mori A., Feltzing S., Lucchesi R., Di Matteo P., *ApJL*, Volume 986, Issue 2, *id.L21*, 10 pp., *doi: 10.3847/2041-8213/addc66*.
- 2025 **Tracing the accretion history of the Galaxy with halo stars**
Mori A., Di Matteo P., Salvadori S., *Stellar populations in the Milky Way and beyond, Proceedings of the IAU Symposium No. 395, 2025, J. Meléndez, C. Chiappini, R. Schiavon & M. Trevisan, eds., in press*
- 2024 **Metallicity distributions of halo stars: do they trace the galactic accretion history?**
Mori A., Di Matteo P., Salvadori S., Khoperskov S., Pagnini G., Haywood M., *A&A*, 690, A136 (2024), *doi: 10.1051/0004-6361/202449291*.

HPC Proposals

- 2024 **LEONARDO BOOSTER/CINECA (80k GPU hours): UFDsDNA**
"DNA of Ultra-Faint Dwarf galaxies: uncovering Dark matter and Accretion events".
Mori A. (PI), Mastrobuono-Battisti A., Salvadori S., Di Matteo P.

Grants

- 2024 **International Astronomical Union Travel grant**
IAU Symposium 395 - Paraty (Brazil).
- 2021 **Erasmus+ Traineeship grant**
GEPI, Observatoire de Paris, Université PSL, Paris (France).

Invited talks

- Sep 4th 2025 **Uppsala University - Astronomy and Space Physics seminars**
Ångström laboratory, Uppsala University (Sweden).
Seminar: "Tracing the accretion history of the Milky Way with halo stars".
- Sep 3rd 2025 **Lund University - Galaxy Group meetings**
Division of Astrophysics, Department of Physics, Lund University (Sweden).
Talk: "Tracing the accretion history of the Galaxy through chemo-dynamics of halo stars".
- Sep 2nd 2025 **Lund Observatory - seminar**
Lund Observatory, Department of Geology, Lund University (Sweden).
Talk: "Chemical decoding of kinematic substructures in the Galactic halo".
- May 8th 2025 **INAF-OAPd seminars**
Aula Jappelli, Osservatorio Astronomico di Padova, Padua (Italy).
Seminar: "Tracing the accretion history of the Milky Way with halo stars".
- Aug 26th-30th 2024 **GalPhases24: Accretion in the Local Group**
Observatoire Astronomique de Strasbourg, Strasbourg (France).
Talk: "Metallicity distributions of halo stars: do they trace the galactic accretion history?".
- Jun 26th-30th 2023 **GalPhases23: Phases of Galactic evolution as traced by stellar populations and star clusters**
Sexten Centre for Astrophysics, Sesto (Italy).
Talk: "Reconstructing the accretion history of the Galaxy from the kinematics and metallicity distribution of halo stars".

Conferences

Jun 23rd-29th 2025	EAS 2025 - European astronomical society annual meeting <i>University College Cork (UCC), Cork (Ireland).</i> Poster: "Deciphering the Milky Way's halo substructures: insights from Gaia-APOGEE".
Jun 16th-20th 2025	STARS II: current challenges, upcoming solutions <i>CNR Research Area, Bologna (Italy).</i> Talk: "Unravelling the chemical abundance patterns of the Milky Way building blocks".
Nov 22nd-27th 2024	IAU Symposium 395: Stellar populations in the Milky Way and beyond <i>Paraty, Rio de Janeiro (Brazil).</i> Talk: "Metallicity distributions of halo stars: do they trace the galactic accretion history?".
Jul 29th–Aug 2nd 2024	Small Galaxies, Cosmic Questions - II <i>Calman Learning Centre - Durham University, Durham (UK).</i> Talk: "Searching for the building blocks of our Galaxy through the kinematics and metallicity distribution of accreted halo stars".
Jul 1st-5th 2024	EAS 2024 - European astronomical society annual meeting <i>Padova Congress, Padova (Italy).</i> Talk: "Metallicity distributions of halo stars: do they trace the galactic accretion history?".
May 27th-31st 2024	The Milky Way Assembly Tale - Plot and characters as of today, and what to expect in future editions <i>CNR Research Area, Bologna (Italy).</i> Talk: "Metallicity distributions of halo stars: do they trace the galactic accretion history?".
Mar 25th-Apr 5th 2024	Abundance Gradients in the Local Universe (ADONIS) workshop <i>MIAPbP, Excellence Cluster ORIGINS, Garching Research Center, Munich (Germany).</i> Talk: "Metallicity gradients of halo stars as tracers of the galactic accretion history".
Jan 29th-Feb 2nd 2024	The Milky Way is not an island: The halo of the Galaxy and its satellites <i>Sexten Centre for Astrophysics, Sesto (Italy).</i> Talk: "Tracing the accretion history of the Galaxy with halo stars".
Nov 13th-17th 2023	Metal Production and Distribution in a Hierarchical Universe – II <i>ESO, Santiago (Chile).</i> Talk: "Reconstructing the accretion history of the Galaxy from the kinematics and metallicity distribution of halo stars".
Oct 9th-12th 2023	Milky Way research: connecting the near and far field <i>Observatoire de Paris, Paris (France).</i>

Schools

Jan 15th-19th 2024	Machine and Deep Learning @IASF Milano School <i>INAF-IASF, Milano (Italy).</i>
Nov 8th-15th 2023	XXXIV Canary Islands Winter School of Astrophysics: The Local Group as a benchmark for Galaxy Evolution <i>Instituto de Astrofísica de Canarias, La Laguna, Tenerife (Spain).</i>
Mar 20th-31st 2023	Theoretical Aspects of Astroparticle Physics, Cosmology and Gravitation school <i>Galileo Galilei Institute for Theoretical Physics, Florence (Italy).</i>

Miscellaneous

- 2025 - **Memberships**
INAF (Istituto Nazionale di Astrofisica)
SF2A (Société Française d'Astronomie et d'Astrophysique)
- 2025 **Press releases**
Unifi Magazine: <https://www.unifimagazine.it/la-via-lattea-incontro-unaltra-galassia>
La nazione: <https://www.lanazione.it/firenze/cronaca/via-lattea-galassia-e2krtt7w>
- 2025 **Outreach**
Notti d'estate ad Arcetri - Osservatorio Astrofisico di Arcetri, Florence (Italy).
- 2015-2022 **Teaching**
Private tutor for students in mathematics and physics.
- 2021-2022 **Traineeship**
GEPI, Observatoire de Paris, Université PSL, Paris (France).
- 2018 **Observations**
Loiano Observatory, Bologna (Italy).
TNG, Roque de los Muchachos Observatory, La Palma, Canary Islands (Spain).

Languages

Italian	Native (C2)
English	Advanced (C1)
French	Upper-Intermediate (B2)
German	Intermediate (B1)
Spanish	Elementary (A2)

Computer skills

Softwares: Microsoft Office, L^AT_EX
Operating systems: Unix, macOS, Linux, Windows
Programming: Python, AstroPy, SciKit-Learn, C, MATLAB, Fortran90
Astronomical Data analysis software: TOPCAT, DS9, XSPEC, cloudy

Academic References

Prof. Stefania Salvadori, University of Florence (stefania.salvadori@unifi.it)
Prof. Paola Di Matteo, Observatoire de Paris (paola.dimatteo@obspm.fr)
Dr. Alessandra Mastrobuono-Battisti, University of Padua
(alessandra.mastrobuono@unipd.it)

Place and date

Alice Mori

I hereby give my consent for my personal data included in my application to be processed for the purposes of the recruitment process in accordance with the General Data Protection Regulation (GDPR).