

Edwige Pezzulli



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Summary

I am a friendly and multifaceted person, I love challenging myself and learning new skills. I am a Ph.D. candidate in Astronomy, Astrophysics and Space Science of Rome, La Sapienza, and I am expected to get my Ph.D. degree by November 2017. I'm looking for a scientific experience to expand my knowledge, striking for excellence. My theoretical background and training allow me to approach several scientific topics in a very versatile and adaptable way. I am firmly convinced that the key to Progress resides in the promotion of diversity.

Work Experience Timeline

Oct 2014 – On going	Ph.D. Student Astronomy Astrophysics	<u>University La Sapienza</u>
Sep 2015 – On going	Academic Scientific Thesis Supervisor	<u>University La Sapienza</u>
Sep 2013 – On going	Physics Teaching	<u>Astronomical Observatory</u>
Jan 2013 – Sep 2013	Data analyst / visualization Specialist	<u>Spazi Comuni</u>
Oct 2012 – Jan 2013	Scientific data analyst	<u>IAPS</u>

Education

2014 – On going	Ph.D. in Astronomy and Astrophysics. University Sapienza, Rome <i>Advisor: Raffaella Schneider (INAF-Rome)</i> -Modeling the formation and growth of the first quasars in a cosmological context, with particular attention to the super-Eddington accretion regime -Collaboration for 3 months with Marta Volonteri, IAP-Paris -Visiting student UZH, Zurich -Co-advisor for thesis (bachelor degree): "Compact binary systems in the multimessenger era", Elisa Mantovani. Advisor: Corinne Rossi -3 years of research experiences in different institutes (IAPS, OAR, INAF, IAP, Sapienza)
2012 – 2014	Master of Science, Astrophysics 110/110 cum laude and certificate of excellence. Physics Department (1 st in Italy, top 25 in the world) - World University - Ranking 2014, University Sapienza <i>Title: "The coevolution of the first black holes and their host galaxies"</i> <i>Advisor: Raffaella Schneider</i> -Modelling the co-evolution of the first quasar at $z > 6$ -Top 3 student, Department of Physics, University Sapienza, Roma -24th best Italian academic career award
2007 – 2012	Bachelor Degree in Physics. University Sapienza, Rome <i>Title: "Astero-seismology of solar-type stars"</i> <i>Advisor: Corinne Rossi</i> -Visiting student at the University and Observatory of Padua -Visiting student at the Observatory of Lojano
2002 – 2007	High School Diploma, specialization in classical studies, Liceo Ginnasio statale Pilo Albertelli, Rome

Academic awards

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2017 Mobility grant, University La Sapienza
 2016 Fellowship for scientific dissemination in high schools, LAB2GO, Rome
 2014 PhD Fellowship, University Sapienza, Rome
 2014 "Percorso di eccellenza", top 3 student, University Sapienza, Rome
 2014 Academic Excellence Award, 24th best academic career in Italy, ADISU
 2007,08,09, 13,14 Merit Scholarships, ADISU, Rome
 2010,11,12 Studentship, University Sapienza, Rome

Skills and competences

Fortran, python coding
 Semi-analytic models
 Fast learner and problems solver
 Strong organization and team working skills
 Particular attention to details
 Machine learning (beginner)

Public speeches and presentations

2016 Invited talk	"Tor Vergata Workshop"	Rome (Italy)
2016 Contributed talk	"High redshift Universe"	La Valletta (Malta)
2016 Contributed talk	"First stars V"	Heidelberg (Germany)
2016 Contributed talk	"AGN 12"	Naples (Italy)
2015 Invited talk	"Recomputing the early Universe"	Pisa (Italy)
2015 Poster Presentation	"Demography and environments of AGN"	Crete (Greece)
2015 Poster presentation	"European Week of Astronomy"	Tenerife (Spain)

Phd Schools attendance

2013	IMPRS Summer School: High Energy Astrophysics, Max Planck Research School for Astronomy and Cosmic Physics at the University of Heidelberg, Germany
2015	First GraWIToN School, EGO - European Gravitational Observatory, Cascina, Italy
2015	First ICTP Advanced School on Cosmology, International Centre for Theoretical Physics, Trieste, Italy
2016	PhD school Francesco Lucchin, Osservatorio Capodimonte, Napoli, Italy

Scientific International Publication

- Pezzulli, Valiante, Schneider "Super-Eddington growth of the first black holes" [MNRAS 458, 3047](#)
- Pezzulli, Valiante, Orofino, Schneider, Gallerani, Sbarrato "Faint progenitors of z~6 quasars. Where are they?", [MNRAS 466 2131](#)
- Valiante, Agarwal, Habouzit, Pezzulli "On the formation of the first quasar: a theoretical perspective", review for PASA, accepted
- Pezzulli, Volonteri, Valiante, Schneider "On the feasibility of super-critical accretion in the early Universe", in prep.

Membership and affiliations

INAF - Istituto Nazionale di Astrofisica
 INFN - Istituto Nazionale di Fisica Nucleare
 University of Rome La Sapienza
 EAS - European Astronomical Society
 SIF - Societa' Italiana di Fisica

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Davide Pel