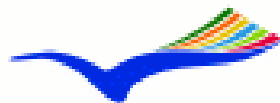
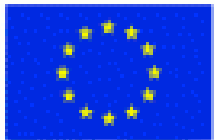


# AstroMundus in numbers and Alumni careers



Erasmus Mundus Master Course in Astrophysics  
1<sup>st</sup> Cycle  
Editions 1 to 5  
2010 - 2016



Education and Culture DG

ERASMUS MUNDUS

Co-funded by the  
Erasmus+ Programme  
of the European Union

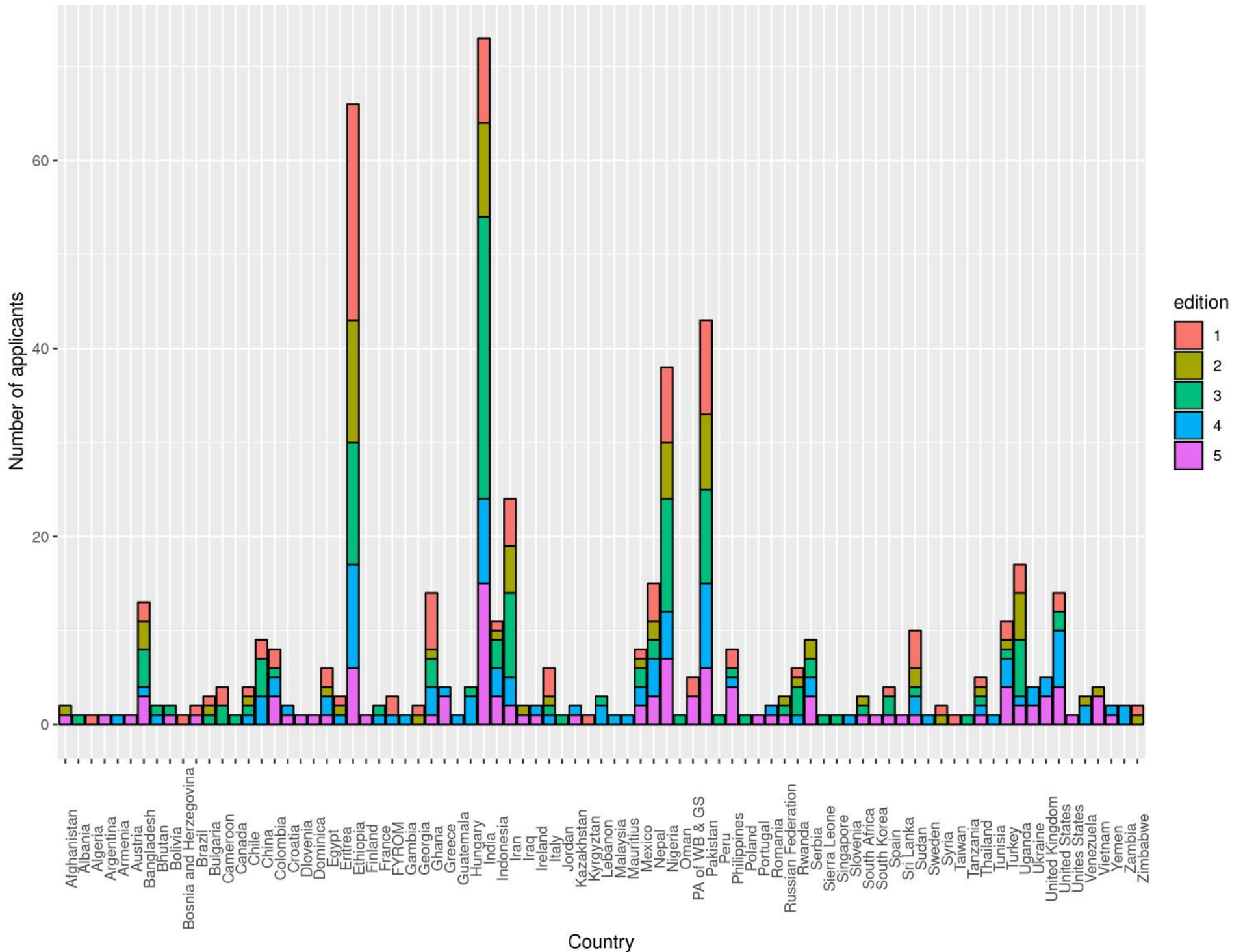


# AstroMundus Applicants & Students - Editions 1 to 5

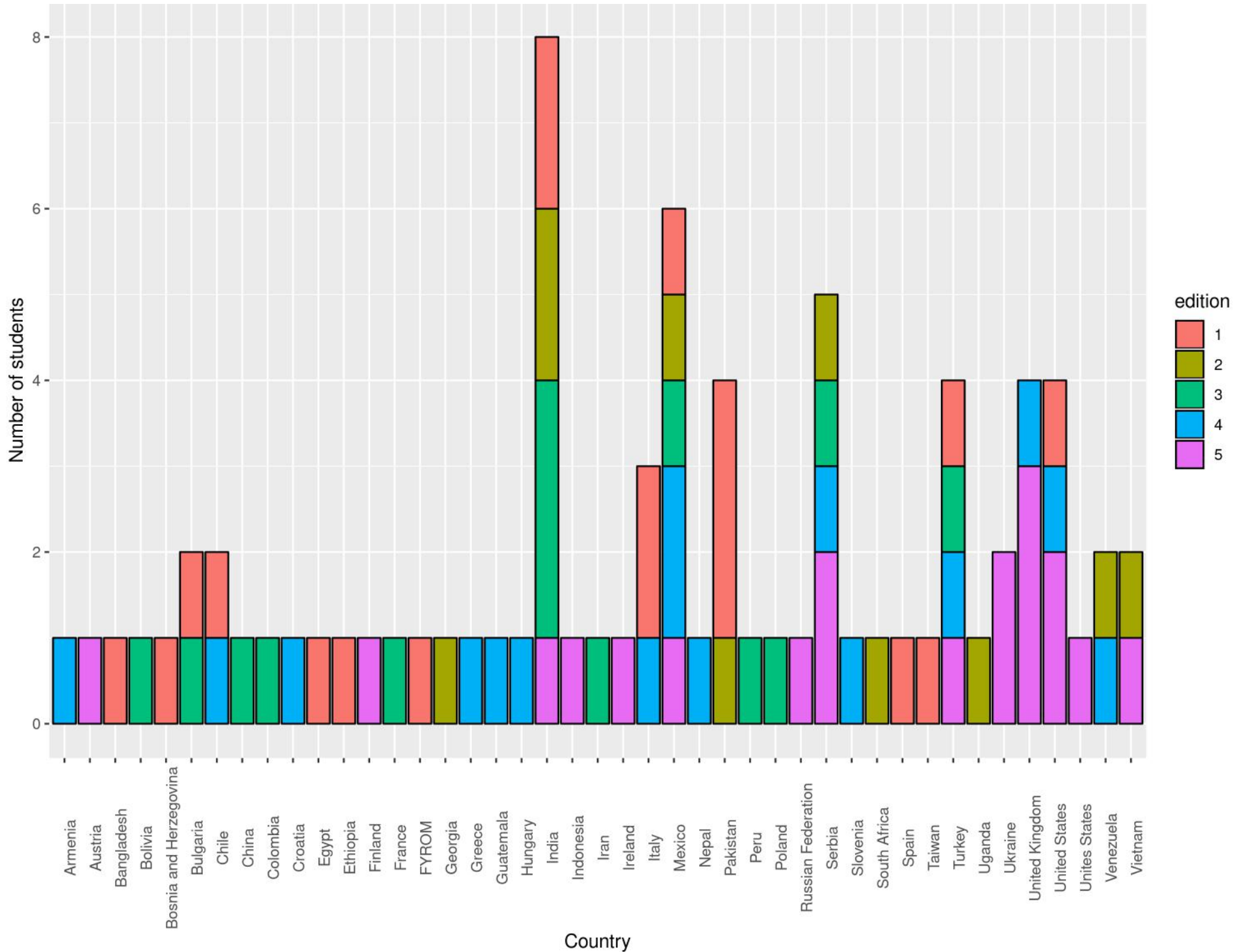
Applications arrived from 83 different countries; 19% of applicants were females.  
78 students (28 females, 50 males) from 43 different countries were enrolled.

	Edition 1	Edition 2	Edition 3	Edition 4	Edition 5	Total
No. of applicants	112	76	125	138	105	556
EMMC student scholarship holders enrolled in the category A/Partner Country	13	8	9	8	7	45
EMMC student scholarship holders enrolled in the category B/ Programme Country	6	2	4	4	3	19
Students from Partner Countries enrolled as self-payers or with alternative scholarships	0	0	2	1	5	8
Students from Programme Countries enrolled as self-payers or with alternative scholarships	0	0	0	3	4	7
<b>Successfully graduated students</b>	16	10	14	14	19	<b>73</b>

# Countries of origin of applicants



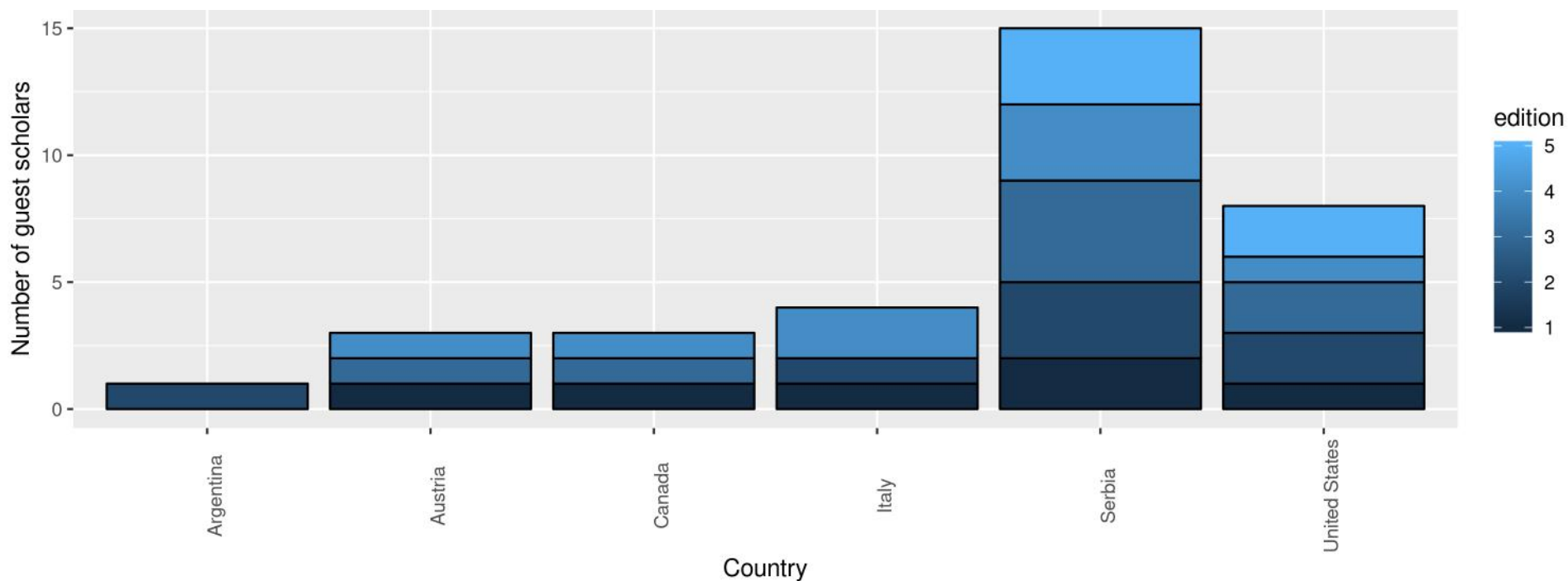
# Countries of origin of enrolled students



# AstroMundus Guest Scholars – Editions 1 to 5

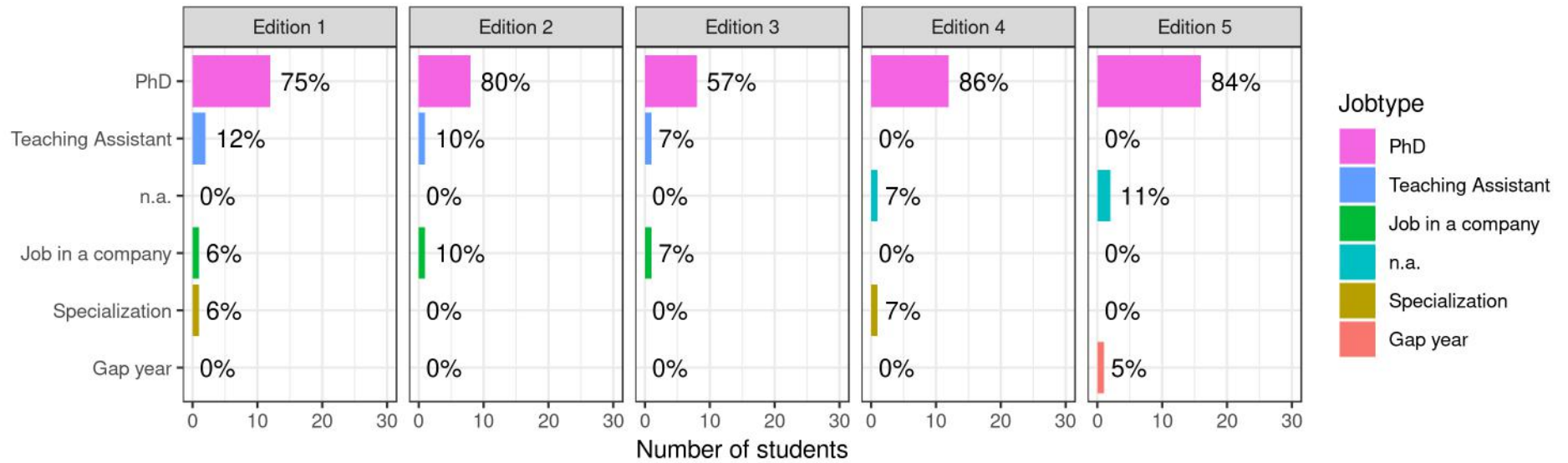
	Edition 1	Edition 2	Edition 3	Edition 4	Edition 5	Total
Guest scholars from Partner Countries	4	6	7	5	0	22
Guest scholars from Programme Countries	2	1	2	3	5	12

## Countries of origin of Guest Scholars



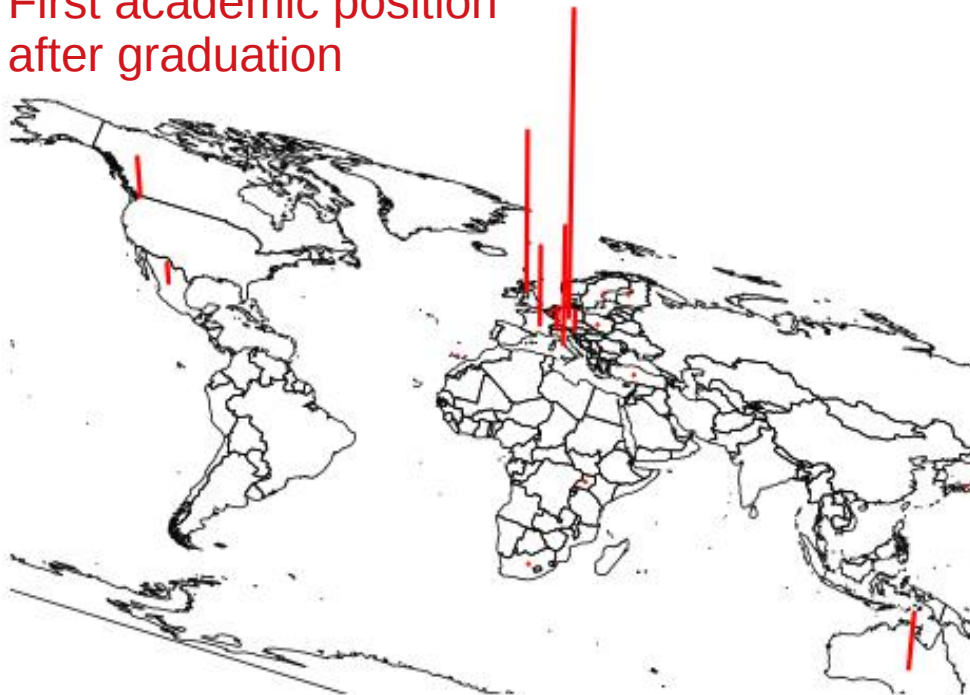
# Alumni careers

## First occupation/activity after AstroMundus graduation

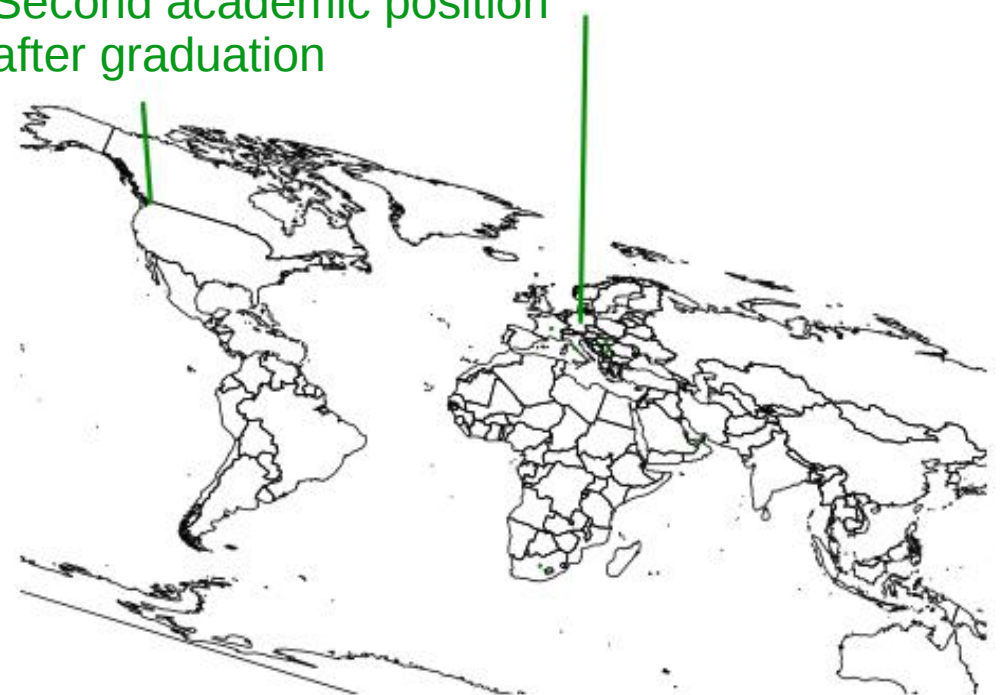


## Countries where AstroMundus alumni obtained their academic positions after graduation

First academic position after graduation



Second academic position after graduation



# Edition 1 – Master theses and Alumni careers (part 1)

Name & Country of origin	Master Thesis	AstroMundus Graduation	Position after graduation and further position, when known
Zahra Alvi, Pakistan	Growth of Super Massive Black holes on Cosmological Timescales	University of Göttingen, 03/09/2012	Jobs outside academia: Research analyst, United Arab Emirates. Entrepreneur.
Khan Muhammad bin Asad, Bangladesh	On the origin of cold fronts and radio mini halos by means of gas sloshing	University of Rome Tor Vergata, 20/07/2012	PhD, Kapteyn Astronomical Institute, University of Groningen, The Netherlands. Since October 2016 Post-Doc at SKA Office in South Africa.
Abbas Askar, Pakistan	Optical Emission from Ultraluminous X-ray Sources	University of Padua, 27/09/2012	PhD, Nicolaus Copernicus Astronomical Center, Polish Academy of Sciences, Warsaw, Poland
Luca Grassitelli, Italy	Physical Parameters of the Relativistic Shock Waves in a sample of Gamma Ray Bursts	University of Belgrade, 27/07/2012	PhD, IMPRS Max-Planck-Institute for Radioastronomy, Argelander Institut für Astronomie, Bonn, Germany - concluded in October 2016. Now Post-Doc at the same Institute.
Yu-Cian Hong, Taiwan	Dynamics and survival of moons of extra-solar giant planets in planet-planet scattering	University of Padua, 27/09/2012	PhD, Cornell University, U.S.A.
Cigdem Kanberoglu, Turkey	From TOD to CMB power spectra; A new, improved, Map making algorithm	University of Rome Tor Vergata, 20/07/2012	PhD, Middle East Technical University, Turkey
Christopher Marvin, USA	A spectrum forward simulator for CARMENES	University of Göttingen, 20/09/2012	PhD, Institute for Astrophysics, University of Göttingen, Germany
Remudin Reshid Mekuria, Ethiopia	Hydrodynamical studies for cosmology	University of Göttingen, 05/09/2012	PhD, Wits University, Johannesburg, South Africa - concluded in autumn 2017.

Note: as of September 2019



# Edition 1 – Master Theses & Alumni careers (part 2)

Name & Country of origin	Master Thesis	AstroMundus Graduation	Position after graduation and further position, when known
Pece Podigachoski, Macedonia	Dust-enshrouded star formation in galaxy clusters: the 24 m cluster galaxy population	University of Innsbruck, 10/08/2012	PhD, Kapteyn Astronomical Institute, University of Groningen, The Netherlands - concluded in October 2016. Now working as technical analyst in a Dutch company
Nemanja Rakic, Bosnia Herzegovina	Variability of AGN spectral properties	University of Belgrade & University of Göttingen, 27/07/2012	Univ. Assistant, University of Banja Luka, Bosnia-Herzegovina & PhD, University of Belgrade, Serbia
Payaswini Saikia, India	The UV and optical spectral properties of a sample of broad line AGNs	University of Belgrade and University of Göttingen, 27/07/2012	PhD, Radboud University, Nijmegen, The Netherlands - successfully concluded in June 2018. Now post-doc at New York University, Abu Dhabi, United Arab Emirates
Sara Alejandra Sans, Spain	Human-Robotic Mars Science Operations: Target Selection Optimization via Traverse and Science Planning	University of Innsbruck, 14/08/2012	PhD, GAIA Research for European Astronomy Training (GREAT-ITN) network, KU Leuven, Belgium - successfully concluded in January 2017.
Kamal Mohamed Teieb, Egypt	Efficient Identification of Exoplanetary Transit Signals	University of Innsbruck & Univ. of Göttingen, 25/04/2013	Teaching Assistant (demonstrator), Sohag University, Faculty of Science, Egypt
Paritosh Verma, India	Study of Detectability of Gravitational Wave Signals from Highly Magnetic Accreting Millisecond Neutron Stars	University of Rome, 28/09/2012	Further studies at the University of Massachusetts, U.S.A.
Dimitar Vlaykov, Bulgaria	Observable consequences of open inflation	University of Göttingen, 05/09/2012	PhD, Institute for Astrophysics, University of Göttingen, Germany - successfully concluded in September 2015. Postdoctoral Researcher at the Max Planck Institut für Dynamik und Selbstorganisation, Göttingen
Laura Volpes, Italy	Thermal and magnetic structure of the corona in a 3D MHD simulation	University of Göttingen, 20/07/2012	PhD, Institute for Astrophysics, University of Göttingen, Germany - successfully concluded in June 2016

Note: as of September 2019



# Edition 2 – Master theses and Alumni careers (part 1)

Name & Country of origin	Master Thesis	AstroMundus Graduation	Position after graduation and further position, when known
Wilnelia Edith Adams, South Africa	Sun-Climate Relations: The Effect of UV Irradiance Variability on Stratospheric Ozone over the 11-year Solar Cycle	University of Rome Tor Vergata, 27/09/2013	PhD, Davos World Radiation Center & ETH Zurich, Switzerland
Cosmos Dumba, Uganda	Probing the Accretion Disk Winds in AGN	University of Göttingen, 23/08/2013	Teaching Assistant, Mbarara University, Uganda & PhD, University of Jena & Tautenburg Observatory, Germany, successfully concluded in Jan 2019. Now Lecturer at Mbarara University
Levan Kakabadze, Georgia	Contribution of Structure Formation: Cosmic Rays to Extragalactic Gamma Ray Background	University of Innsbruck & University of Belgrade, 30/09/2013	Job as software engineer, Georgia
Vladimir Lukovic, Serbia	Lemaitre-Tolmon-Bondi: Cosmological Model	University of Rome Tor Vergata, 27/09/2013	PhD, Joint PhD programme at the Universities of Rome "Tor Vergata" and "La Sapienza", Italy, concluded in 2017. Now Post-Doc at UniTOV.
Gerardo Martinez Aviles, Mexico	On the Evolution of Galactic Habitability	University of Innsbruck & University of Belgrade, 23/08/2013	PhD, International Relativistic Astrophysics Programme, Erasmus Mundus Joint Doctorate, University of Nice, France
Fahad Nasir, Pakistan	Mock X-Ray Observations of Galaxies undergoing RAM-pressure stripping	University of Innsbruck, 13/08/2013	PhD, University of Nottingham, United Kingdom. Now post-doc at University of California, Riverside, USA.
Kalyan Kumar Radhakrishnan Pattathil Santhakumari, India	Removal of the Ground Layer for very large Telescopes	University of Padua, 13/09/2013	PhD, IMPRS Max-Planck-Institute for Astronomy, Heidelberg, Germany, concluded in 2017. First postdoc in Heidelberg. Now fixed-term researcher position at INAF, Padova, Italy

# Edition 2 – Master Theses & Alumni careers (part 2)

Name & Country of origin	Master Thesis	AstroMundus Graduation	Position after graduation and further position, when known
Barbara Lucia Ramirez Mosquera, Venezuela	Study of the Intercluster Medium Velocity Structure in Cosmological Simulations	University of Innsbruck, 13/09/2013	PhD, University of Innsbruck, Austria
Xuan Nhut Truong, Vietnam	Neutrino Physics and new Perspectives in Cosmology	University of Padua, 13/09/2013	PhD, Joint PhD programme at the Universities of Rome "Tor Vergata" and Rome "La Sapienza", Italy, concluded in 2017. Now Post-Doc at Eötvös Loránd University, Budapest, Hungary
Abhay Pratap Yadav, India	Study of Chromospheric Activity of Solar-Type Stars	University of Göttingen, 14/09/2013	PhD, EXPERT III Erasmus Mundus programme, Institute for Astrophysics, University of Göttingen, Germany, concluded in 2016. Post-Doc at the University of Göttingen

# Edition 3 – Master theses and Alumni careers (part 1)

Name & Country of origin	Master Thesis	AstroMundus Graduation	Position after graduation and further position, when known
Paola Wara Chamani Velasco, Bolivia	Star Formation and Accretion Power of Supermassive Black Holes in Circumnuclear Disks	University of Göttingen, 16/09/2014	PhD, Metsähovi Radio Observatory, Aalto University, Finland
Guido Granda Munoz, Peru	Influence of Box Size and Overdensity in Cosmological Simulations	University of Innsbruck, 22/09/2014	PhD, ICRAR - University of Western Australia
Balakrishna Sandeep Haridasu, India	Cosmological Perturbations and Warm Dark Matter	University of Rome Tor Vergata, 24/10/2014	PhD, Gran Sasso Science Institute, l'Aquila, Italy, concluded in July 2018. Now postdoc at Univ. Rome ToV, Italy.
Fateme Kamali, Iran	AGN Black Hole Masses at Different Cosmological Scales	University of Göttingen & University of Belgrade, 09/09/2014	PhD, IMPRS Max-Planck-Institute for Radioastronomy, Argelander Institut für Astronomie, Bonn, Germany
Rosita Dimitrova Kokotanekova, Bulgaria	X-ray Weak Quasars	University of Göttingen & University of Belgrade, 09/09/2014	PhD, Max-Planck-Institute for Solar System Research, Göttingen, Germany & Open University, U.K., concluded in 2018. Now postdoctoral ESO fellowship, Germany.
Le Hoang Nguyen, Vietnam	Search for Binary Counterparts of Galactic Gamma-Ray Transients	University of Rome Tor Vergata, 24/10/2014	PhD, DESY (Deutsches Elektronen-Synchrotron), Hamburg, Germany
Uroš Meštrić, Serbia	Investigations of Structure and Morphology of Galaxies in a Sample from GAMA and SDSS Databases	University of Belgrade, graduated as local student, autumn 2015	PhD, Swinburne University of Technology, Melbourne, Victoria, Australia
Ana Paola Mikler, Colombia	Cluster Properties of High Redshift Sources in the ADF-S Region	University of Padova, 30/09/2014	PhD, IMPRS Max-Planck-Institute for Radioastronomy, Argelander Institut für Astronomie, Bonn, Germany
Anna Ogorzalek, Poland	MHD Simulations of Colliding Stellar Winds in Binary Systems	University of Innsbruck, 08/09/2014	PhD, Stanford University, California, U.S.A.

# Edition 3 – Master theses and Alumni careers (part 2)

Name & Country of origin	Master Thesis	AstroMundus Graduation	Position after graduation and further position, when known
William Arthur Polycarpe, France	Study of the Flyby Anomaly Tracking the Future JUICE Probe with the International Laser Ranging Service	University of Padova, 30/09/2014	PhD, Observatoire de Paris, France, concluded in October 2018
Avneet Singh, India	Primordial Non-Gaussianity in Horndeski-type Models of Inflation	University of Padova, 30/09/2014	PhD, IMPRS at Max Planck Institute for Gravitational Physics (Albert Einstein Institute) and Leibniz University, Hannover, Germany, concluded in 2017. Now Post-Doc at the Albert Einstein Institute, Hannover
Martha Irene Saladino, Mexico	Planetary Bombardment in Young Planetary Systems	University of Göttingen, 03/09/2014	PhD, Radboud University, Nijmegen, The Netherlands
Sreevarsha Sreejith, India	Stellar Mass Content of Planck Sunyaev-Zeldovich Galaxy Clusters	University of Innsbruck, 15/09/2014	PhD, University of Innsbruck, Austria. Starting a post-doc in October 2018 at the University of Clermont Auvergne, France
Jinglin Zhao, China	End-to-End Simulation of CARMENES Observations	University of Göttingen, 30/09/2014	PhD, University of New South Wales, Australia

# Edition 4 – Master theses and Alumni careers – (part 1)

Name & Country of origin	Master Thesis	AstroMundus Graduation	Position after graduation and further position, when known
Deepak Bastola, Nepal	Study of feedback mechanisms from Active Galaxy Nuclei	University of Göttingen, 10/09/2015	PhD, Laboratoire d'Astrophysique de Marseille, Université d'Aix-Marseille, Marseille, France
Grega Belšak, Slovenia	Modeling of Eclipse Time Variations for V471 Tauri System	University of Göttingen, 04/09/2015	n.a.
Aleksandar Cikota, Croatia	A Study of the Effect of Host Galaxy Extinction on the Colors of Type Ia Supernovae	University of Innsbruck, 16/07/2015	PhD, ESO Fellowship at International Max Planck Research School, Garching, Germany, completed in July 2018. Now post-doc at Lawrence Berkeley National Laboratory, USA.
Dan Josué Deras Badillo, Mexico	Modelling near-surface effects in evolved solar-like oscillators	University of Göttingen, 18/09/2015	PhD, National Autonomous University of Mexico (UNAM), Mexico
Arpine Kozmalyan, Armenia	Constraints on Cosmological Parameters from Cosmic Microwave Background and Matter Power Spectrum Observations	University of Rome, 18/09/2015	PhD, University of Rome Tor Vergata, Italy, concluded in 2018.
Kristhell Marisol López López, Guatemala	Central Massive Black Holes and Dark Matter Halos in Low Mass Galaxies	University of Innsbruck, 01/09/2015	PhD, SRON Netherlands Institute for Space Research, Utrecht, The Netherlands
Konstantina Loumou, Greece	A Flare Forecasting Algorithm Based on Multi-Line Magnetograms	University of Rome, 25/09/2015	PhD, University of Glasgow, U.K.
Mija Lovrić, Serbia	Solar Cycle Effects on Stratospheric Ozone	University of Rome, 25/09/2015	PhD, University of Rome Tor Vergata, Italy, successfully concluded in December 2018.

Note: as of September 2019

# Edition 4 – Master Theses & Alumni careers (part 2)

Name & Country of origin	Master Thesis	AstroMundus Graduation	Position after graduation and further position, when known
Pietro Olmo Piana, Italy	Time Renormalization Method in Cosmological Perturbation Theory	University of Göttingen, 28/09/2015	Specialization on space transport systems, University of Rome "La Sapienza", Italy. Now PhD student at the Kapteyn Astronomical Institute, University of Groningen, The Netherlands
Eliceth Yaneire Rojas-Montes, Venezuela	Keck/DEIMOS Spectroscopy of Blue Supergiants in IC 10 and Sextans B	University of Innsbruck, 15/01/2016	PhD, Armagh Observatory, U.K.
Noemi Schaffer, Hungary	Ultralight Axion Dark Matter Modeling with Particle-In-Cell Method	University of Göttingen, 03/09/2015	PhD, Department of Astronomy and Theoretical Physics, Lund University & Lund Observatory, Sweden
Lawrence Anthony Short, United Kingdom	Comparison of Predicted and Observed Period Derivatives of RR Lyrae Stars	University of Rome & University of Belgrade, 25/09/2015	PhD, Astrophysics Research Institute, Liverpool John Moores University, Liverpool, U.K.
Efsan Sökmen, Turkey	Determination of Element Abundances of Galactic Globular Clusters Through Red Giants with MUSE/VLT	University of Göttingen, 24/09/2015	PhD, Instituto de Astrofísica de Canarias, Tenerife, Canary Islands, Spain
Miles Landan Timpe, USA	A new age-period-activity relation for M dwarfs: implications for planetary habitability	University of Göttingen, 04/09/2015	PhD, NCCR 'Planet S' program, Swiss exoplanet consortium, Center for Theoretical Astrophysics and Cosmology, University of Zurich, Switzerland

# Edition 5 – Master theses and Alumni careers – (part 1)

Name & Country of origin	Master Thesis	AstroMundus Graduation	Position after graduation and further position, when known
Benjamin Garret Browning, USA	Multimessenger Detection of Core-Collapse Supernovae via Linked Gravitational Wave and Neutrino Detector Networks	University of Rome Tor Vergata, 28/10/2016	n.a.
Benjamin Eric Czaja, USA	Star formation from molecular cloud collisions	University of Padova, 28/09/2016	Initially opted for a job in a company. PhD candidate at the Computational Science Lab, Univ. of Amsterdam, The Netherlands
Hannah Suzanne Dalglish, United Kingdom	Quantitative Spectroscopy of Blue Supergiants in NGC 6822	University of Innsbruck, 13/09/2016	PhD, Astrophysics Research Institute, Liverpool John Moores University, UK
Kaan Kaplan, Turkey	The Search for Exoplanets in K2 Clusters M35 and NGC 2158	University of Padova, 27/10/2016	n.a
Iuliia Mykhailivna Diakiv, Ukraine	Variability of the broad-line Seyfert galaxy ESO 141-G55	University of Göttingen, 26/09/2016	Opted for a break period in her home country
Robert Dzudzar, Serbia	Dwarf Galaxy Evolution in the Massive and Dynamically Active Cluster Abell 3266	University of Innsbruck, 19/09/2016	PhD, Swinburne University of Technology, Melbourne, Australia
Odyse Halim, Indonesia	The Sensitivity of Using Coarse Grid in All-Sky Surveys Data Analysis of Continuous Gravitational Waves	University of Rome Tor Vergata, 30/09/2016	PhD, Gran Sasso Science Institute, L'Aquila, Italy
Erik Nikolas Johnson, USA	Halpalpha Variability in CN Leo, an Active M Dwarf	University of Göttingen, 26/09/2016	PhD, Max Planck Institute for Solar System Research (MPS), Göttingen, Germany
Yana Igorevna Khusanova, Russian Federation	Adaptation of the LSST Software Stack to the ESO-NTT SOFI Camera and Application to the SOFI Ks-band Dataset of the 02hr Deep Field from the VIMOS-VLT Deep Survey for Data Reduction and Analysis	University of Innsbruck & University of Belgrade, 27/09/2016	PhD, Laboratoire d'Astrophysique de Marseille, Université d'Aix-Marseille, France



# Edition 5 – Master theses and Alumni careers (part 2)

Name & Country of origin	Master Thesis	AstroMundus Graduation	Position after graduation and further position, when known
Maksym Lisogorskyi, Ukraine	Stellar magnetic field impact on planet detection	University of Göttingen, 16/09/2016	PhD, University of Hertfordshire, Hatfield, UK
Abhishek Sanjay Maniyar, India	Cosmological parameter estimates from SNe Ia and H(z)	University of Rome Tor Vergata, 23/09/2016	PhD, Laboratoire d'Astrophysique de Marseille, Université d'Aix-Marseille, France
Minh Nhat Nguyen, Vietnam	Local Random Potentials and Cosmology	University of Göttingen, 27/07/2016	PhD, Max Planck Institute for Astrophysics (MPA), Garching, Germany
Liam Donal O'Sullivan, Ireland	Parameter Studies in Cosmic Ray Propagation	University of Innsbruck, 16/09/2016	PhD, University of Sheffield, Sheffield, UK
Ernesto Perez Hernandez, Mexico	AGN Light Curves and Periodicities: The case of ARP 102B, 3C 390.3, NGC 5548 & E1821+643	University of Göttingen & University of Belgrade, 21/09/2016	PhD, University of Guadalajara, Mexico
Bastian Severin Niklas Proxauf, Austria	Homogeneous Metallicity Scale for Galactic Classical Cepheids	University of Rome Tor Vergata, 30/09/2016	PhD, Max Planck Institute for Solar System Research (MPS), Göttingen, Germany
Miika Aleksi Pursiainen, Finland	The shape of relativistically broadened Fe K $\alpha$ line in type 1 AGN	University of Belgrade, 07/09/2016	PhD, University of Southampton, UK
Nikolina Šarčević, Serbia	Population of Gamma-Ray Sources in the Third Fermi LAT Catalogue	University of Padova, 09/03/2017	PhD, University of Freiburg, Germany
Joanna Tamani Ramasawmy, United Kingdom	The Intrinsic Shapes of Dwarf Galaxies in the MATLAS Survey	University of Innsbruck, 09/09/2016	PhD, University of Hertfordshire, Hatfield, UK
Georgina Feroza Sanjana, United Kingdom	Spherical Collapse of Ultra-Light Axionic Dark Matter	University of Göttingen, 02/09/2016	PhD, University of Kyoto, Japan

Note: as of September 2019

# Some outstanding scientific works with the participation of AstroMundus Alumni

- First detection of gravitational waves and subsequent works within the LIGO-Virgo collaboration. Avneet Singh, co-author of the Physics Review Letter  
<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.116.061102>
- Observation of gravitational waves from a binary neutron star merger (GW170817) and from a binary black-hole coalescence (GW170814). Odysse Halim and Avneet Singh are co-authors of the Physics Review Letters  
<https://doi.org/10.1103/PhysRevLett.119.161101>  
<https://doi.org/10.1103/PhysRevLett.119.141101>
- Observation of a kilonova as the electromagnetic counterpart of the gravitational wave source GW170817. Aleksandar Cikota, co-author of the Letter to Nature  
<https://www.nature.com/articles/nature24303>

# Some examples of outstanding scientific works with the participation of AstroMundus Alumni

- Discovery of a ring around the trans-Neptunian dwarf planet Haumea. Aleksandar Cikota, co-author of the Letter to Nature  
<https://www.nature.com/articles/nature24051>
- Discovery of an Earth-mass planet orbiting Proxima Centauri, the nearest star to the Sun. Christopher J. Marvin, co-author of the Letter to Nature  
<https://www.nature.com/articles/nature19106>  
Press release:  
<http://www.eso.org/public/news/eso1629/>
- New hints to the unification of Quasars and Radio-Galaxies and finding of prodigious starburst-driven superwinds in Quasar host galaxies. Pece Podigachoski is first author / co-author of the Astrophysical Journal Letters  
<https://doi.org/10.1088/2041-8205/806/1/L11>  
<https://doi.org/10.3847/2041-8213/aa7631>  
Press release:  
<https://phys.org/news/2017-12-herschel-links-mysterious-quasar-furious.html>