

Curriculum-Vitae

Merieme Chadid

Astronomer

Female, Born in Casablanca, Morocco on October 11th, 1969

Double Citizenship: French & Moroccan

Married & 2 children: 13 & 14 years old (Tycho & Leyla)

Speaks Arabic, French, English & Spanish

https://en.wikipedia.org/wiki/Merieme_Chadid



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Education:

- ◆ Habilitation thesis, “Habilitation à diriger les recherches en Sciences”, 2014, University Nice-Sophia Antipolis, France.
- ◆ PhD thesis: 1996, in Astronomy & Space, University Paul Sabatier of Toulouse, France. Prepared at Observatoire de Haute Provence. Mention “Très honorable avec Félicitations de Jury”
- ◆ Postgraduate degree: 1993, Imagery of Sciences of Universe, University Nice-Sophia Antipolis.
- ◆ Diploma of Executive Education: 2009, Global Leadership and Public Policy for the 21st Century, Harvard University, Kennedy School of Government.
- ◆ Diploma of Executive Education: 2012, Leading for the Future in a Changing World, Harvard University, Kennedy School of Government.

Job Positions and Duties:

- ◆ Since 1/09/2002 Astronomer, permanent position CNAP “Centre National des Astronomes et Physiciens” at Observatoire de la Côte d'Azur, France.
- ◆ Since 1/09/2002 30% Lecturer, permanent position at Faculty of Science, University Nice-Sophia Antipolis, France.
- ◆ Since 1/09/2002 PhD Supervisor, University Nice-Sophia Antipolis, France.
- ◆ 1999-2002 ESO Fellowship, Support Astronomer on VLT Telescopes and Instruments at Paranal in Chile.
- ◆ 1996-1998 Research-Engineer, CNRS “Centre National de Recherche Scientifique”, Montpellier.
- ◆ 1996-1998 30% Lecturer at Faculty of Science, University of Montpellier, France.

- ◆ 1994-1996 INSU research grant from Institut National de Science de l'Univers, service observing runs and support to astronomers at Observatoire de Haute-Provence's telescopes.
- ◆ Since 2006 Summer Campaigns at Dome C in Antarctica for several IPEV-programs on Site-testing and PAIX, supported by Conseil des Programmes Scientifiques et Techniques CPST.

Research Topics:

Stellar Physics, stellar structure and evolution, stellar pulsation, asteroseismology, cosmological parameters, space science, variable stars, globular clusters, time-series analysis, multicolor photometry, high-precision space photometry, high-resolution spectroscopy, spectroscopic line-profile variations, pulsation mode identification methods, polarimetry, high-resolution angular, concept of instrumental development, Antarctica polar technology.

Scientific fields:

My theoretical and observational research activities are focused on various contributions to elaborate our understanding of stellar pulsation and evolution by exploring multi techniques and methods of observations such as high resolution spectroscopy with UVES at VLT, HARPS at LaSilla, FEROS at LaSilla, ELODIE & SOPHIE at OHP, DuPont at LasCampanas, spectropolarimetry with ESPADON at CFHT, MuSiCoS & NARVAL at Pic du Midi, FORS2 at VLT, spectrointerferometry with AMBER & MIDI at VLTi, multicolor photometry with PAIX in Antarctica, Dome C, and space telescopes, CoRoT, KEPLER & Hubble. Numerous works and discoveries, in the framework of international collaborations, on hypersonic shock waves, turbulence, Blazhko effect, identification of pulsation modes, fundamental parameters and abundances, magneto- hydrodynamical effects and distances in the Universe, via Period-Luminosity relationship (*The reader is referred to the full publication and invited conferences list for the achievements in these various research fields*).

As present member of the World Economic Forum and Young Global Leader Forum, I learned how to get a real impact on global affairs, how to cope with challenges, to avoid disasters and then how to take the best decision and strategy.

Scientific Prizes and Awards:

- ◆ 2016 Distinction «Women of the Antarctic Wikibomb», attributed by Scientific Committee on Antarctic Research (SCAR) on 30 June 2016.
- ◆ 2015 Woman of the year in Science Award, attributed by the London's Mayor Boris Johnson on 3 December 2015.
- ◆ 2013 recipient of the “Grade d'Officier de la Légion d'Honneur ” handed over by His Majesty The King of Morocco Mohammed VI on 31 July 2013.
- ◆ 2008 Distinction “Young Global Leader” attributed by the World Economic Forum on 16 March 2008.
- ◆ 2010 Science Hero Award of the MYHERO Project, celebrating the best of humanity.
- ◆ 2014 Young Leader Award of the China-France Foundation on September 2014.
- ◆ 2014 Invited member by the vice president of the Republic of China LI YUANCHAO in Hangzhou.
- ◆ Invited member to “Education of Arab World” round table animated by the queen Rania of Jordan, in 2008 .
- ◆ Main actor, 2-hours. scientific documentary “Pioneering Woman” broadcasted by AlJazeera TV Channel , 2007-2008. The movie presents the scientific career of Merieme Chadid. The documentary won the Silver Medal

in New York Festival's International Television & Film Awards.

- ◆ 2010 Honored one of the 30 most fascinating workers in the world by Forbes Magazine.
- ◆ 2015 Honored Global Teacher Prize by the Academy of Global Teacher Prize.
- ◆ 2015 Elected Dame of the Day over the Globe in January 12, 2015
- ◆ 2013 Honorary member of WIP «Women In the Parliament» by the European Parliament in 2013.
- ◆ Numerous invitations by the World Economic Forum, to DAVOS forum in Switzerland in 2009 & 2010 and Summer-DAVOS forum in China in 2009, 2010, 2011 and 2012.
- ◆ 2012 Honorary Featured Fellow in the Global Network for Africa's Prosperity.
- ◆ Numerous honorary invitations to TV news by several international Channels towards promoting women in Sciences. Such as BBC-News (London), France 3, 2M (Morocco), etc.
- ◆ 2015 Portrayed in the book “Free, rebellious and audacious”, written by the writer Claire Champenois.
- ◆ Main actor, documentary Film “Astronomy for children” realized by AlJazeera TV Channel, in 2010.
- ◆ Biographic movie, “Grand Angle” realized by 2M, Moroccan TV Channel in 2006.

Leadership of Scientific Bodies, organizations and Committees:

- ◆ 2013-2017 Principal Investigator of PAIX –Photometer AntarctIca eXtinction– IPEV-program 1069 at Dome C.
- ◆ 2006-2010 Principal Investigator of PAIX –Photometer AntarctIca eXtinction– within IPEV-program “Astro-Concordia” at Dome C.
- ◆ 2006-2007 In charge of development and installation of PAIX and SSS at Dome C during summer campaigns.
- ◆ Member of CALL OF THE POLES Campaign since 2013.
- ◆ Member of CNFRA “Comité National Français des Recherches Arctiques et Antarctique”.
- ◆ 2005- Principal Investigator of CoRoT space mission Consortium Team of RR Lyrae and Cepheids pulsating stars.
- ◆ 2004-2010 In charge of Education & Teaching Mission at Côte d'Azur observatory.
- ◆ 2009-2010 In charge of the program « Science Education and Public Science in the ethnic minorities and developing countries », supported by IAP (the global network of science academies),
- ◆ TWAS (Academy of Sciences for the developing world) and Academy of young Scientists.
- ◆ 2004-2010 In charge of IDT/VLTi Team in JMMC Center.
- ◆ 1999-2002 In charge of service and visitor mode observing runs at ESO, Paranal.
- ◆ 1999-2004 Member of group of VLT scientific operations at ESO.
- ◆ 2015- Member of Working scientist group of HIRES at E-ELT.
- ◆ 2014- Member of Academy of Teacher Prize.
- ◆ 2014- Young Leader of France-China Foundation.
- ◆ 2006- Member of Consortium CoRoT Team, space mission , European Space Agency.

- ◆ 2009- Member of Consortium Kepler Team , space mission, NASA.
- ◆ 2013- Member of of the PLATO Science Study Team, European Space Agency.
- ◆ 2005- Member of GAIA, space mission, Scientific Council of variable stars , European Space Agency.
- ◆ 2004-2010 Member of Scientific Council of Côte d'Azur Observatory.
- ◆ 2008- Young Global Leader and member of the World Economic Forum.
- ◆ Chairman, facilitator & lecturer to numerous manifestations organized by the World Economic Forum since 2008.
- ◆ 2009 Chairwoman of SOC (Scientific Organizing Committee) of International Colloquium on stellar pulsation & evolution « Stellar Pulsation: Challenges for theory and observation » at Santa Fe, USA.
- ◆ 2008-2010 Chairman & organizer of several meetings on RR Lyrae stars from space mission. Three among them were organized at Observatoire de la Côte d'Azur and got financial support from Programme National de Physique Stellaire PNPS of CNRS/INSU.
- ◆ IAU Member "International Astronomical Union". In Division IX (Optical & Infrared Techniques, Radial velocities, Stellar Photometry & Polarimetry, IV (stellar spectra, Stars) and V(Variable stars).
- ◆ Member of AAVSO « American Association of Variable Star Observing » .

Supervision of PhD/Master Research:

20 Phd and Master students have been supervised by Merieme Chadid. Most of them at Université Nice Sophia-Antipolis.

Talks:

Invited talks presented at ~ 10 National and International scientific meetings
 Oral contributions presented at ~ 20 National and International scientific meetings
 More than 20 colloquia/seminars given in European and in American Institutions

Public Outreach:

Talks in primary and secondary French and under-developing countries Schools and for Amateur Astronomy's activities as well. Author of several popular reviews.

Ten most important publications with leading role by Merieme Chadid:

Zalian, C. (Chadid's PhD. Student); **Chadid, M.**; Vernin, J.; Abe, L.; Agabi, A. 2016 MNRAS 456, 192

Antarctica photometry of the Blazhko RR Lyrae star S Arae

Chadid, M.; Vernin, J.; Preston, G.; Zalian, C.; Pouzenc, C.; Abe, L.; Agabi, A.; Aristidi, E.; Liu, L. Y.; Mékarnia, D.; Trinquet, H. 2014, AJ, 148, 88

First Detection of Multi-shocks in RR Lyrae Stars from Antarctica: A Possible Explanation of the Blazhko Effect.

Chadid M., Preston G. W., 2013, MNRAS, 434, 552

Atmospheric dynamics in RR Lyrae stars: a high-resolution spectroscopic survey

Chadid M., 2012, A &A, 540, 68

Detection of multiple modes in a new double-mode RR Lyrae star

Chadid M., Perini C., Bono G., Auvergne M., Baglin A., Weiss W. W., Deboscher J., 2011, A &A, 527, 146

CoRoT light curves of Blazhko RR Lyrae stars. Evidence of a strong correlation between phase and amplitude modulations of CoRoT ID 0105288363

Chadid M., Vernin J., Mekarnia D., Chapellier E., Trinquet H., Bono G., 2010, A &A, 516, L15

First Antarctica light curve. PAIX monitoring of the Blazhko RR Lyrae star: S Arae

Chadid M., Benkő, J. M.; Szabó, R.; Papp, M.; Chapellier, E.; Kolenberg, K.; Poretti, E.; Bono, G.; Le Borgne, J.-F.; Trinquet, H.; 2010, A &A, 510, 39

Highlighted by A&A

First CoRoT light curves of RR Lyrae stars. Complex multiplet structure and non-radial pulsation detections in V1127 Aquilae

Chadid M., Vernin J., Gillet D., 2008, A &A, 491, 537

Hypersonic shock wave evidence in RR Lyrae stars. First detection of neutral line disappearance in S Arae

Chadid M., Chapellier E., 2006, A &A, 456, 305

RR Lyrae spectroscopic observations over a whole Blazhko period: frequency analysis and implications for theoretical models

Chadid M., Wade G. A., Shorlin S. L. S., Landstreet J. D., 2004, A &A, 413, 1087

No evidence of a strong magnetic field in the Blazhko star RR Lyrae