

# Sundar Srinivasan

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## Areas of specialisation

Evolved stars, dust radiative transfer modelling, the dust budget in nearby galaxies, statistics.

## Work and education

2018-present	Investigador Titular 'A', IRyA, UNAM, Mexico
2017-2018	Support scientist, Academia Sinica Institute of Astronomy & Astrophysics (ASIAA), Taipei, Taiwan under Dr. Francisca Kemper
2012-2017	Postdoctoral fellow, Academia Sinica Institute of Astronomy & Astrophysics (ASIAA), Taipei, Taiwan under Dr. Francisca Kemper
2009-2012	Postdoctoral researcher, Institut d'Astrophysique de Paris, Paris, France under Drs. Laurent Vigroux, Hélène Roussel, and Stéphane Charlot
2000-2009	M.A. (Astronomy; 2006), Ph.D. (Astronomy; Dec 2009), The Johns Hopkins University, Baltimore, MD, USA. Ph.D. Advisor: Dr. Margaret Meixner (STScI)
1997-2000	M.S. (Physics; Sep 2000), The Indian Institute of Science, Bangalore, India. Advisor: Dr. Arnab Raichoudhuri

## Selected publications & invited talks

### INVITED TALKS

2019	"An inventory of the stellar sources of dust in the Universe", <i>LXII Congreso Nacional de Física</i> , Universidad Juárez Autónoma de Tabasco
2018	"Dust production in low-mass stars", <i>Cosmic Dust: origin, applications, and implications</i> , University of Copenhagen
2017	"The Dust Budget in Nearby Galaxies", <i>Lifecycle of Metals Through The Universe</i> , STScI Spring Symposium
2014	"The dust return from AGB stars in nearby galaxies", <i>Why Galaxies Care About AGB Stars III</i> , Vienna University
2013	"Dust production in asymptotic giant branch stars", <i>The Life Cycle of Dust in the Universe: Observations, Theory, and Laboratory Experiments</i> , ASIAA

## JOURNAL ARTICLES

- 2019 Dharmawardena, T. E., Kemper, F., **Srinivasan, S.** *et al.*, MNRAS 489, 3218  
2017 **Srinivasan, S.**, Kemper, F., Zhou, Y. *et al.*, P&SS, 149, 56  
2016 **Srinivasan, S.**, Boyer, M. L., Kemper, F. *et al.*, MNRAS, 457, 2814-2838  
2014 Blum, R. D., **Srinivasan, S.**, Kemper, F. *et al.*, AJ, 148, 86  
2012 Riebel, D., **Srinivasan, S.**, Sargent, B. *et al.*, ApJ, 753, 71  
2011 **Srinivasan, S.**, Sargent, B. A., Meixner, M., AA, 532, A54

## Grants, honours & awards

- 2020-2021 Programa de Apoyo a Proyectos de Investigación e Innovación Tecnológica (PAPIIT) project no. IA104820, "Characterising Dust Production and Mass Loss in Nearby Evolved Stars".  
Amount: MXN 330 000 over two years

## Teaching and supervision

- 2019-present Supervising Emir Hernández, a masters student at IRyA, on a thesis titled "Chracterising the Dust Around Evolved Stars"  
2019 Instructor for the graduate course *Statistics for Astronomers* at IRyA  
2012-2018 Supervised the following undergraduate students on research projects as part of the ASIAA Summer Student Program: I-Kai Chen (2017, "Modelling acetylene absorption around carbon stars in the Large Magellanic Cloud"), Ka Wai Ho (2017), "Using neural networks to interpolate synthetic spectra in a grid of carbon-star models", Maria Flavia Cicala (2016), "The Dust Budget of the Galaxy NGC 6822", Ben Ling (2013), "Analysing near-infrared spectra of asymptotic giant branch stars in the Large Magellanic Cloud", and Thomas Lai (2013), "The Dust Budget of the Galaxy M33"  
2006-2009 Physics tutor for the *Johns Hopkins Post-Baccalaureate Pre-medical Program*  
2005-2006 Teaching assistant for graduate course in Radiative Astrophysics and Numerical Methods for Physicists  
2000-2006 Teaching assistant for the following undergraduate courses: Introductory Physics and Introductory Physics Laboratory for science and engineering majors and for pre-medical students (2000-2003), Introductory Physics for Biology Majors (head teaching assistant for a class of 400 students and 20 teaching assistants, 2002-2003 and 2005-2006)  
1998-1999 Teaching assistant for the Advanced Physics Laboratory graduate course at IISc

## Professional experience

- 2019-present Jointly heading the Colloquium Committee at IRyA  
2019-present Organiser of the *Data Analysis Working Group @ IRyA (DAWGI)*, monthly meetings held since April 2019  
2017-2018 Deputy leader for Dr. Francisca Kemper's group at ASIAA  
2014-present Referee for papers submitted to Astronomy & Astrophysics and The Monthly Notices of the Royal Astronomical Society  
2016-2017 Organiser of the 4<sup>th</sup> and 5<sup>th</sup> *Annual Interstellar and Circumstellar Material Workshop* at ASIAA  
2016 Organiser of the *Mini-workshop on Evolved Stars* at ASIAA  
2013 Local Organising Committee member for conference titled *The Life Cycle of Dust in the Universe: Observations, Theory, and Laboratory Experiments* at ASIAA  
2011 Local Organising Committee member for the IAP Symposium 2011 titled *From Dust to Galaxies*