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## définition - Sultana Nurun Nahar

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## Wikipedia

### Sultana Nurun Nahar

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**Sultana Nurun Nahar** is a senior [research scientist](#) at the [Ohio State University](#) in the field of atomic astrophysics. She was born in Dhaka, Bangladesh and then came to United States. In 2006, she was elected in a [fellowship](#) for the [American Physical Society](#) (APS). Right now she is living at Columbus, Ohio with her only son Alburuj R Rahman, and with her nephew Mohammad Abdullah, a Civil Engineering student at the Ohio State University.

### Sultana Nahar

File:Sultana Germany Talk.JPG

Sultana Nurun Nahar at [Stellar Atmosphere, 2002, Tübingen](#)

**Nationality** [American](#)

**Field** [Atomic Astrophysics and Spectroscopy](#)

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## Early life

Sultana N. Nahar was born in [Dhaka, Bangladesh](#). Her father, Abdur Razzaq, was a well known lawyer of the Bangladesh high/supreme courts and her mother, Shamsun Nahar, was known for her charity work. She grew up with five other siblings: two brothers and

three sisters. She received academic awards in music and arts all throughout her primary and high school life. She did her secondary school certification at Moniza Rahman Girls High School and she got the higher secondary school certificate from Kamrunnesa Girls College.

## Education

Sultana Nahar got her [Bachelor of Science](#) degree in 1977 from Dhaka University of Bangladesh and was the first woman graduate of BSC Honors in Physics to stand first class first. Then, in 1979, she received her Master's Degree in [theoretical physics](#) in Dhaka University standing first class first. Sultana moved to United States in 1979 and got her masters in [quantum optics](#) on nonlinear properties of [liquid crystals](#) in 1984. She received her Ph.D in atomic theory in 1987. After two and a half years of postdoctoral ship at [Georgia State University](#), she moved to the Ohio State University with an award from the College of Mathematical and Physical Sciences. <sup>[1]</sup>

## Research and Projects

Dr. Nahar has been working on research for [photoionization](#), [electron-ion recombination](#), [radiative transition probabilities](#), [electron-ion scattering](#), [theoretical spectroscopy](#), [computational nanospectroscopy](#) for [biomedical applications](#), and development of theories and programs for state-of-the art methods for atomic parameters, currently dielectronic satellite lines in astrophysical plasmas. She is a member of the international collaborations of the Opacity Project and the Iron Project to calculate accurate atomic parameters for astrophysically abundant atoms and ions. <sup>[2]</sup> Based on her work on atomic processes of Iron, Nahar is also called "The Iron Lady"<sup>[3]</sup> by astronomers. Physicists and astronomers around the world use her computationally intensive mathematical models of the iron atom when interpreting complicated spectra produced by high-energy astrophysical processes, such as those that occur near black holes at the centers of active galaxies. <sup>[3]</sup>

## Awards

- Honorary plaque by Department of Physics of Jahangirnagar University, Bangladesh, for astrophysics seminar and various contributions, August 2008

- Honorary plaque by Department of Management Studies, University of Chittagong, Bangladesh, for keynote speech in global warming impact seminar and contributions, August 2008
- Research contributions recognition plaque by the Topical Society of Laser Sciences, Egypt in celebration of its 20th anniversary, 3rd international conference on Fit Modern Trends in Physics Research} MTPR-08, Cairo University, Egypt, April 6-10, 2008
- Certificate of High Appreciation for the efforts given to the international conference MTPR-08, Cairo University, Egypt, April 6-10, 2008
- "Pioneer Women of Bangladesh", one of the 12 First Women in Bangladesh, in 2008 calendar by the Foundation of Voice of the Voiceless Women, Bangladesh
- "Our Pride Award" by Bangladesh Association of Central Ohio (BACO), December 29, 2007, "In Recognition of Outstanding Achievements in the Field of Astronomy and Physics"
- APS Fellow, American Physical Society, 2006 - Citation: "For seminal contributions to studies of photoionization and recombination of multicharged atomic systems fundamental to atomic physics and plasma physics and pioneering calculations of remarkable complexity on astrophysically significant processes."
- Guest of Honor - the "World Women's Day" observation, Keynote speech "Perspectives of a woman scientist on problems and inspiring women to science", organized by the Progressive Forum in New York, March 18, 2006, New York
- Honorary Plaque by N-TV of Bangladesh for a Successful Professional, 2005
- Honorary Certificate of Appreciation for services as Professional Mentor for minority students, Office of Minority Affairs and Retention Services, The Ohio State University, 2005
- Honorary Crest of Appreciation for Contributions, Maniza Rahman Girls High School, Dhaka, Bangladesh, 2003, 2004, 2005, 2006, 2007, 2008
- Honorary Certificate of Appreciation for services as Professional Mentor for minority students, Office of Minority Affairs and Retention Services, OSU, 2002

- Certificate of Appreciation for contributions as University Postdoctoral Fellow, 1990-1991, The Ohio State University Graduate School, Columbus, Ohio
- University Postdoctoral Research Fellowship Award for Women and Minorities, College of Mathematical and Physical Sciences, The Ohio State University, 1990-1993
- Thomas C. Rumble University Graduate Fellowship Award, Wayne State University (WSU), 1985-1986
- Thomas C. Rumble University Graduate Fellowship Award, WSU, 1984-1985
- Knoller Fellowship Award in Physics, Dept of Physics \& Astronomy, WSU, 1985-1986
- Knoller Fellowship Award in Physics, Dept of Physics \& Astronomy, WSU, 1984-1985
- Daniel R. Gustafson Memorial Award to a graduate student for excellence in teaching, Wayne State University, January 1984
- Knoller Fellowship Award, Wayne State University, 1979
- First Position Award, M.Sc.in Theoretical Physics, 1979, University of Dhaka, Bangladesh
- Merit Scholarships, M.Sc. 1977-1979, University of Dhaka
- First Position Award, B.Sc.Hons.(1977), University of Dhaka, Bangladesh
- Salekunnessa Award for the Best Woman Student in the B.Sc.Hons. examinations, University of Dhaka, 1977
- Kalidas Merit Scholarships, B.Sc.Hons. 1973-1977, University of Dhaka
- Individual College Admissions to 6 subjects through countrywise competitions for each subject: Dhaka University (Physics, Mathematics, Statistics, \& Chemistry), Bangladesh University of Engineering and Technology (BUET), Mymensing Medical College
- Merit Scholarship - Central Women's College, H.S.C. - First Division

- Annual Awards - Academic, Music, Art - throughout school life Class I - Class X, Maniza Rahman Girls High School; S.S.C - First Division with Letters, Dhaka, Bangladesh

## References

1. ^ University Media (2004).*Meet the Iron Lady*. Department of Astronomy Magazine, p. 19.
2. ^ Sultana Nahar Website[1]
3. ^ Ohio State University Publications. Astronomy 2004 [2].

## External links

- Sultana Nahar's Research Website at The Ohio State University

➔ [Toutes les traductions de Sultana Nurun Nahar](#)

- dans le [dictionnaire Français-Anglais](#)
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