

# CURRICULUM VITAE

**Mubdi Rahman**

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## Education

- 09/2008 – Present    **Ph.D. (Astronomy & Astrophysics), University of Toronto**  
Supervisors: C. Matzner & D-S. Moon  
*Expected Completion: 08/2012*
- 09/2007 – 08/2008    **M.Sc. (Astronomy & Astrophysics), University of Toronto**  
*Transfer to Ph.D. With full credit*
- 09/2003 – 05/2007    **Hons. B. Sc. (Astronomy & Physics), University of Toronto**

## Scholarships & Awards

- 04/2011                **Adel S. Sedra UTAA Graduate Scholar**, University of Toronto
- 09/2007                **Mary & Ron Martin Graduate Fellowship in Astrophysics**  
University of Toronto, Department of Astronomy & Astrophysics
- 04/2007                **Gordon Cressy Student Leadership Award**, University of Toronto
- 05/2005                **NSERC Undergraduate Summer Research Award**  
University of Toronto, Department of Astronomy & Astrophysics
- 05/2003                **Canadian Millennium Scholarship Foundation Provincial Excellence Award**
- 05/2003                **University of Toronto Book Award**

## Refereed Publications

- Rahman, M., Matzner, C., Moon, D-S., 2011, "A Candidate for the Most Luminous OB Association in the Galaxy," *The Astrophysical Journal Letters*, 728, L37
- Rahman, M., Murray, N., 2010, "A New Sample of Very Massive Star Forming Complexes in the Spitzer Glimpse Survey," *The Astrophysical Journal*, 719, 1104
- Murray, N., Rahman, M., 2010, "Star Formation in Massive Clusters via the Wilkinson Microwave Anisotropy Probe and the Spitzer Glimpse Survey," *The Astrophysical Journal*, 709, 424

## Conference Submissions

- Rahman, M., Matzner, C., Moon, D-S., "Candidates for Young Super Star Clusters in the Milky Way?" 217<sup>th</sup> American Astronomical Society Meeting, Seattle, WA, USA, 01/2011, (Talk)
- Rahman, M., Matzner, C., Moon, D-S., Murray, N., "Through the Dust: Massive Stellar Clusters in the Milky Way," From Stars to Galaxies, Gainesville, Florida, USA, 04/2010, (Poster)

Rahman, M., Murray, N., "Measuring the Star Formation Rate within the Galaxy using WMAP," SFR@50, Spineto, Italy, 07/2009, (Talk)

Rahman, M., Murray, N., "Measuring the Star Formation Rate within the Galaxy using WMAP," Canadian Astronomical Society Annual General Meeting, Victoria, BC, 05/2008, (Poster)

Clement, C., Rahman, M., "Are there any RR2 variables in Omega Centauri?" 206<sup>th</sup> American Astronomical Society Meeting, Minneapolis, MN, USA, 05/2005, (Poster)

## Successful Observing Proposals

- 2011 **PI, 25.5 Hours, Expanded Very Large Array, Semester 11B**  
Title: "Continuum Component-Separated Mapping of SINGS Galaxies: Pilot Study of NGC 2403"
- 2011 **Co-I, 13 Hours, James Clerk Maxwell Telescope, Semester 11B**  
Title: "Mapping the molecular cloud associated with massive star forming complex G24 in the Galactic Plane"
- 2011 **PI, 50 Hours, Mopra Telescope, April 2011 Semester**  
Title: "Mapping the Natal Molecular Cloud of the Dragonfish Cluster"
- 2010 **PI, 5 Nights, NTT SOFI, Semester 86**  
Title: "Near Infrared Spectroscopy of Candidate O-stars in the Candidate Massive Cluster at G298.4 -0.4"

## Scientific Talks/Seminars

- 07/2011 **Research School of Astronomy & Astrophysics, Australian National University**, Colloquia
- 07/2011 **University of Sydney**, Astronomy Seminar
- 07/2011 **Australia Telescope National Facility**, Colloquia
- 07/2011 **University of New South Wales**, Astronomy Department Talk
- 03/2011 **Cerro Tololo Inter-American Observatory**, Colloquia
- 03/2011 **ESO Santiago**, Seminar
- 10/2009 **University of Toronto**, CITA/DI/DAA Day

## Teaching & Work Experience

- 01/2011 – 04/2011 Teaching Assistant, AST 222H1S: Galaxies & Cosmology,  
*University of Toronto, Department of Astronomy & Astrophysics*
- 09/2010 – 12/2010 Teaching Assistant, AST 221H1F: Stars and the Solar System,  
*University of Toronto, Department of Astronomy & Astrophysics*
- 01/2010 – 04/2010 Head Teaching Assistant & Tutorial Leader, AST 201H1S: Stars and Galaxies, *University of Toronto, Department of Astronomy & Astrophysics*
- 09/2009 – 12/2009 Tutorial Leader, AST 101H1F: The Sun and its Neighbours,  
*University of Toronto, Department of Astronomy & Astrophysics*
- 01/2009 – 04/2009 Tutorial Leader, AST 201H1S: Stars and Galaxies,  
*University of Toronto, Department of Astronomy & Astrophysics*
- 09/2008 – 12/2008 Teaching Assistant, AST 101H1F: The Sun and its Neighbours,  
*University of Toronto, Department of Astronomy & Astrophysics*
- 01/2008 – 04/2008 Teaching Assistant, AST 201H1S: Stars and Galaxies,  
*University of Toronto, Department of Astronomy & Astrophysics*

- 09/2007 – 12/2007 Teaching Assistant, AST 101H1F: The Sun and its Neighbours,  
University of Toronto, Department of Astronomy & Astrophysics
- 06/2007 – 08/2007 Research Assistant, Professor P. G. Martin  
University of Toronto, Department of Astronomy & Astrophysics
- 05/2004 – Present Web & Computing Assistant  
Canadian Institute for Theoretical Astrophysics

## Selected Public Talks

- 03/2011 Astronomical Connections: Weaving the Stories of Discovery and the Universe  
Department of Astronomy & Astrophysics, University of Toronto (200 Attendees)
- 06/2010 Cosmic Music: Astronomy Through the Eyes of the Billboard Hot 100  
Havergal College, Toronto, ON (150 Attendees)
- 06/2010 How Science Fair is Helping Me Get My PhD  
Science Expo, Centennial CVI, Guelph, ON (100 Attendees)
- 02/2010 Cosmic Music: Astronomy Through the Eyes of the Billboard Hot 100  
Department of Astronomy & Astrophysics, University of Toronto (100 Attendees)
- 06/2009 The Bigger They Are: How Massive Star Formation Affects the Galaxy  
Durham Region Astronomical Association, Whitby, ON (30 Attendees)
- 03/2009 Scales of Time: 15 Billion Years in Under an Hour  
Department of Astronomy & Astrophysics, University of Toronto (200 Attendees)
- 03/2009 Technology at the Edge of the Universe  
York Woods Library, National Engineering Month, Toronto, ON (300 Attendees)
- 01/2008 Measuring Star Formation with WMAP  
North York Astronomical Association, Toronto, ON (30 Attendees)
- 07/2007 The Life and Times of Stars  
David Dunlap Observatory, University of Toronto (30 Attendees)
- 09/2005 The Life and Times of Stars  
Department of Astronomy and Astrophysics, University of Toronto (30 Attendees)
- 10/2004 Lunar Hodgepodge  
Department of Astronomy and Astrophysics, University of Toronto (50 Attendees)

## Selected Outreach Activities

- 05/2010 **Site Chair**, Science Rendezvous at the University of Toronto 2010, University of Toronto (6500 Attendees)
- 05/2009 **Site Chair**, Science Rendezvous at the University of Toronto 2009, University of Toronto (10 000 Attendees)
- 05/2008 **Site Chair**, Science Rendezvous at the University of Toronto 2008, University of Toronto (8500 Attendees)
- 09/2009 – 05/2011 **Science & Social Coordinator**, Canada Wide Science Fair 2011 Host Committee, Youth Science Canada, Toronto, Ontario
- 08/2007 – 07/2009 **Stepping Up Guide Coordinator**, Youth Science Canada, Toronto, Ontario
- 01/2006 – 04/2009 **First Robotics Competition Mentor**, West Humber Collegiate Institute, Toronto, Ontario

## Selected Service Activities

- 02/2011      **Symposium Chair**, Science Illustrated: A Symposium on Visualizing Science, University of Toronto  
(200 Attendees)
- 05/2009      **Local Organizing Committee**, Annual General Meeting of the Canadian Astronomical Society,  
University of Toronto (300 Attendees)
- 07/2008      **Conference Co-Chair**, Local Organizing Committee, Workshop on Parallel Computing in  
Astrophysics, Canadian Institute for Theoretical Astrophysics (60 Attendees)

## Students Supervised

- 09/2010 – 05/2011      Brent Arsenault (Undergraduate Thesis)  
co-supervised with Prof. C. Matzner, University of Toronto
- 09/2010 – 05/2011      Eve Lee (Undergraduate Thesis)  
co-supervised with Prof. N. Murray, University of Toronto
- 04/2010 – 06/2010      Brent Arsenault (Undergraduate Summer Project)  
co-supervised with Prof. C. Matzner, University of Toronto
- 04/2010 – 06/2010      Heidi White (Undergraduate Summer Project)  
co-supervised with Prof. C. Matzner, University of Toronto
- 04/2010 – 08/2010      Eve Lee (Undergraduate Summer Project)  
co-supervised with Prof. N. Murray, University of Toronto
- 06/2007 – 07/2007      Lisa Einstein (High School Summer Internship)  
co-supervised with Prof. P. G. Martin, University of Toronto