

CURRICULUM VITAE

Michael L. Balogh

Department of Physics & Astronomy	Phone: +1 519-888-4567 x37518
University of Waterloo	Fax: +1 519-746-8115
Waterloo, Ontario	E-mail: mbalogh@uwaterloo.ca
Canada N2L 3G1	Web: http://quixote.uwaterloo.ca/~mbalogh/CV.html

PERSONAL DATA

Date of Birth: March 10, 1972.
Place of Birth: London, Ontario, Canada.
Nationality: Canadian
Home Address: 374 Gatestone Blvd, Waterloo, ON, Canada N2T 2J6
Marital Status: Married to Carolyn McCoey

DEGREES

Ph.D. 1999 Physics and Astronomy University of Victoria, Victoria, BC
B. Sc. 1995 Honours Mathematics and Physics McMaster University, Hamilton, ON

DISSERTATION

Title: *"The Recent Star Formation History of Galaxies in X-Ray Clusters"*
Granted: 1999 at University of Victoria, BC
Supervisor: Simon L. Morris

EMPLOYMENT HISTORY

2013-2014 Visiting Professor, Leiden Observatory (sabbatical year)
2009-present Associate Professor, University of Waterloo, Ontario, Canada
2004-2009 Assistant Professor, University of Waterloo, Ontario, Canada
2002-2004 PPARC Fellow, University of Durham, UK
1999-2002 Postdoctoral Research Assistant, University of Durham, UK

GRANTS

Project Period	PI	Award	Amount
2013-2017	Balogh	NSERC Discovery Grant	\$160,000
2010-2012	Balogh	CITA National Fellowship	\$67,000
2008-2013	Balogh	NSERC Discovery Grant	\$181,605
2007-2011	Balogh	Early Researcher Award	\$190,000
2007-2009	Carlberg	NSERC SRO	\$2 million
2007-2008	Hoekstra	CSA Discipline Working Group	\$5,000
2005-2007	Balogh	NSERC Discovery Grant	\$95,700

SCHOLARSHIPS AND AWARDS

2007-2011 Early Researcher Award, University of Waterloo
Oct 2002 – May 2004 PPARC Postdoctoral Fellowship, University of Durham
Sept 1998–Aug 1999 President’s Scholarship, University of Victoria
Sept 1998–Aug 1999 R.M. Petrie Memorial Fellowship. University of Victoria
Sept 1997–Aug 1999 NSERC PGS B Scholarship, University of Victoria
Sept 1997–Aug 1998 President’s Scholarship, University of Victoria
Sept 1996–Aug 1997 President’s Scholarship, University of Victoria
Sept 1996–Aug 1997 R.M. Petrie Memorial Fellowship. University of Victoria
Sept 1995–Aug 1997 NSERC PGS A Scholarship, University of Victoria
Sept 1995–Aug 1996 President’s Scholarship, University of Victoria
May 1995–Aug 1995 NSERC USRA, University of Victoria
Sept 1993–May 1994 University Scholarship, McMaster University
May 1993–Aug 1993 NSERC USRA, McMaster University
Sept 1991–May 1995 Canada Scholarship, McMaster University
Sept 1991–May 1992 Chancellor’s Entrance Scholarship, McMaster University

SOCIETY MEMBERSHIP

International Astronomical Union (IAU)
Canadian Astronomical Society (CASCA)

COMMITTEES

External Committees:

- 2013- Coalition-NRC Standing Committee
- 2011- Long Range Plan Implementation Committee
- 2010-2012 Editorial Board: International Scholarly Research Network, Astronomy and Astrophysics
- 2010- Gemini Board of Directors (Chair from 2012)
- 2010- CASCA Awards committee
- 2007-2009 Canadian Time Allocation Committee (CTAC)
- 2008-2009 Chair, CTAC Extragalactic Panel
- 2007-2009 Canadian Gemini Steering Committee
- 2006-2009 Chair, Optical and Infrared Astronomy in Canada (CASCA subcommittee)
- 2005-2007 Subaru Time Allocation Committee

Departmental Committees:

- 2012-present Associate Graduate Officer
- 2012 Space Committee
- 2011 Canada Undergrad Physics Conference Committee
- 2010-2012 Departmental Advisory Committee on Appointments
- 2010-2012 Long-term planning committee
- 2010 Chair, Computer committee
- 2005 Phys13 News Editorial Board
- 2004-2010 Physics Club Liaison and Debates
- 2004-2009 Computer committee
- 2004-2005 Seminar committee

Faculty of Science Committees:

- 2012-present Faculty Awards Committee
- 2004-present Information Technology Committee

MEETING ORGANIZATION

- 2005 Initiated the South Ontario Cluster Meeting (SOCM) series (Waterloo)
- 2006 Organizer, SOCM II (Toronto) and SOCM III (Waterloo)
- 2007 Organizer, SOCM IV (McMaster)

OUTREACH ACTIVITIES

- 2010 I led the design and construction of several exhibits as contribution to the Cosmomania exhibit at the Children's Museum, Kitchener. This included a display on telescopes, and another on spectroscopy.
- 2009 For the International Year of Astronomy, I helped to organize two public observing nights, and took the lead coordinating a third. Each of these events attracted over 200 people.
- 2007 I delivered a public lecture as part of the University of Waterloo 50th anniversary celebration

INSTRUMENTATION STUDIES

- 2013-present CSA CASTOR Focal Plane Array Concept Study
- 2011-2012 CSA Dark Energy Mission Contribution Concept Study
- 2011-present Leader, Science Working Group on Galaxy Evolution for the ngCFHT
- 2008-2011 CSA Dark Energy Mission Payload Contribution Study
- 2006-2008 CSA Discipline Working Group: Wide-field space imaging

TELESCOPE ALLOCATIONS

I have been awarded over 3000 hours worth of time on many different, world-class facilities, including over 500 hours as principal investigator.

As Principal Investigator	As Co-Investigator
Gemini (North & South)	Magellan (Clay and Baade)
Anglo-Australia Telescope	Hubble Space Telescope
UK Infrared Telescope	Spitzer Space Telescope
William Herschel Telescope	Chandra X-ray Observatory
Canada–France–Hawaii Telescope	XMM
GALEX Space Observatory	Subaru
Cerro-Tololo Inter-American Observatory	Gran Telescopio Canarias
	Very Large Telescope (ESO)

Recent Highlights:

- 2009-2013 Gemini Awarded $> 150h$ as PI for spectroscopic survey of $z = 1$ galaxy groups
- 2009-2010 CFHT A member of the NGVS collaboration, awarded 771 hours (PI Ferrarese)
- 2009 GALEX Awarded 150 orbits as PI to complete coverage of CFHTLS-Wide
- 2009-2010 Gemini A total of 98.4h awarded to my student, Ting Lu, for her thesis project

CONSULTING

Referee for the following Scientific Journals:

The Astrophysical Journal *Monthly Notices of the Royal Astronomical Society*
The Astronomical Journal *Astronomy & Astrophysics*
Canadian Journal of Physics *Central European Journal of Physics*

Referee for the following Observatories:

Canada–France–Hawaii Telescope *Gemini Telescopes*
Subaru Telescope *United Kingdom Infrared Telescope*

Referee for the following Granting/Funding Agencies:

NASA Astrophysics Theory Program *NASA Postdoctoral Program*
European Young Investigator Awards *National Science Foundation*
Le Fonds quebecois de la recherche sur la nature et les technologies *NSERC (GSC 17)*
Particle Physics and Astronomy Research Council *SHARCNET*
Cottrell college Science Awards *AceNET*
Netherlands Organisation for Scientific Research *ECOS-CONICYT*

TEACHING EXPERIENCE

Graduate:

2011	Waterloo	PHYS789 “Star formation on Galaxy Scales”
2010	Waterloo	PHYS788 “Supermassive Black Holes”
2006	Waterloo	PHYS788 ”Feedback Processes in star formation”
2000–2002	Durham	2 postgraduate lectures per annum

Undergraduate:

2009–2013	Waterloo	ECE 105, ”Physics of Electrical Engineering”
2006–2008	Waterloo	PHY 115, ”Engineering Physics”
2006–2007	Waterloo	PHY 275, “Solar System”
2005–2012	Waterloo	PHY 375, “Stars and Stellar Evolution”
2004–present	Waterloo	PHY 10, numerous contributions to undergraduate colloquium series
2002–2003	Durham	Level 2 tutor
1995–1998	Victoria	Astro 120, Teaching Assistant
1994–1997	McMaster	Private Tutor, Math, Physics and Astronomy
1994–1995	McMaster	Laboratory Assistant, First Year Physics

SUPERVISION OF HQP

Year	Name	Type	Present Position
<i>Postdoctoral Fellows</i>			
2007-2010	David Gilbank	Research Assistant	South African Astronomical Observatory
2010-2013	Jesus Franco Zavala	CITA National Fellow	DARK Institute, Copenhagen
<i>Graduate</i>			
2011-2013	Gandhali Joshi	MSc	McMaster University
2011-2013	Angus Mok	MSc	McMaster University
2009-2011	Chad Greene	MSc	Westboro Photonics, Ottawa
2005-2010	Ting Lu	PhD	Radimetrics, Toronto
2005-2010	Sean McGee	PhD	Leiden University
<i>Undergraduate</i>			
2013	Conor Omand	Co-op	UG at UBC
2011	David Layden	NSERC USRA	UG at Waterloo
2011	Stephen Ro	NSERC USRA	MSc at Toronto
2009-2010	Kyle Oman	NSERC USRA	PhD at Victoria
2009	Aabid Patel	PHYS 437 A	-
2009	Russell Blackport	NSERC USRA	-
2008	Max Schirm	PHYS 437 A/B	-
2008	Adam Hitchcock	NSERC USRA	-
2008	Geoff Stanley	NSERC USRA	-
2008	Qi Meng	Research Assistant	-
2008	Adam Bognat	Research Internship	-
2007	Alex De Souza	Research Assistant	MSc at Western
2006-2007	Brad Krane	PHYS 437 A/B	-
2005-2006	Robbie Henderson	NSERC USRA	PhD at Waterloo
2006	Grant Salton	NSERC USRA	-
2005	Tim Foster	Co-Op	-

CONFERENCE CONTRIBUTIONS AND SEMINARS**A. Public lectures**

- | | | |
|------|------------------------|---|
| 2010 | University of Waterloo | <i>Great Balls of Fire: What are the Perseid Meteors?</i> |
| 2007 | University of Waterloo | <i>The future of observational astronomy in Canada</i> |
| 2005 | K-W RASC | <i>The formation and evolution of galaxies</i> |

B. Invited Reviews

- | | | |
|------|-------------------------------|---|
| 2013 | Subaru GLAO Workshop | <i>Open questions in Galaxy Evolution</i> |
| 2013 | Lorentz Centre, Leiden | <i>Open observational questions about satellite galaxies</i> |
| 2013 | ngCFHT Workshop, Hilo, Hawaii | <i>ngCFHT Science overview: Galaxies and Cosmology</i> |
| 2012 | Union College, New York | <i>Star Formation and Gas Reservoirs in Nearby Groups and Clusters</i> |
| 2011 | Lorentz Centre, Leiden | <i>Galaxy evolution in groups and clusters</i> |
| 2009 | Kuala Lumpur, Malaysia | <i>Galaxy groups and intermediate-density environments</i> |
| 2006 | Durham, UK | <i>The coordinated growth of stars, haloes and large-scale structure since $z = 1$</i> |
| 2005 | Ringberg, Germany | <i>The influence of environment on galaxy populations</i> |
| 2004 | Chania, Crete | <i>Galaxy properties in different environments</i> |

C. Invited Seminars and Colloquia

2013	Leiden University	<i>Galaxy Quenching in the SDSS: The role of galaxy structure</i>
2009	Laval University	<i>Galaxy groups: driving galaxy evolution since $z=1$</i>
2007	University of Western Ontario	<i>Preventing star and galaxy formation</i>
2007	St. Mary's University, Halifax	<i>Driving downsizing with groups of galaxies</i>
2007	Michigan State University	<i>Driving downsizing with groups of galaxies</i>
2004	Swinburne Centre for Astrophysics and Supercomputing, Melbourne, Australia	<i>How to kill a galaxy</i>
2004	Oxford University	<i>The role of environment on galaxy evolution</i>
2004	IAU Colloquium no. 195, Torino	<i>Clusters at low redshift</i>
2003	BIRS Workshop, Banff	<i>Galaxies in low density environments</i>
2003	BIRS Workshop, Banff	<i>Entropy generation in the ICM</i>
2003	University of Nottingham	<i>Galaxies in low density environments</i>
2003	University of Birmingham	<i>Entropy in the ICM</i>
2003	OSIRIS Workshop, La Palma	<i>Multi-Object Spectroscopy</i>
2003	University of Waterloo	<i>The physics of galaxy formation</i>
2003	Ringberg, Germany	<i>Evidence for non-gravitational heating from Sunyaev-Zeldovich Observations</i>
2002	University of Birmingham, UK	<i>Galaxy Ecology</i>
2000	Victoria, BC	<i>The Strangulation of Cluster Galaxies</i>
2000	Victoria, BC	<i>(Discussion panel) Generating Entropy - Hot Gas in Groups & Clusters</i>
2000	Porquerolles, France	<i>Observations of $H\alpha$ in Moderate Redshift Clusters</i>
1999	University of Durham, UK	<i>Star Formation in Galaxy Clusters</i>
1999	Lawrence Livermore National Labs	<i>A New Look At Cluster Galaxy Evolution</i>
1998	Friday Harbour, Washington, USA	<i>Star Formation in Galaxy Clusters</i>

D. Contributed Talks

- | | | |
|------------------------|--------------------------------------|---|
| 2006 | Garching, Germany | <i>Entropy generation in merging clusters</i> |
| 2005 | CASCA, Montreal | <i>Evolution of galaxy groups</i> |
| 2002 | Cozumel, Mexico | <i>Galaxy Evolution: Internally or Externally Driven?</i> |
| 2001 | NOAO, Tucson, Arizona | <i>Ultra-Multiplex Observations of Hα in Clusters with LDSS++</i> |
| 2000 | Durham UK | <i>The spatial and kinematic distributions of cluster galaxies</i> |
| 2000 | Birmingham UK | <i>"Modeling accretion-induced gradients in rich galaxy clusters</i> |
| 2000 | UNSW and Epping Laboratories, Sydney | <i>Observing and Modelling Gradients in Galaxy Clusters</i> |
| 1998 | IOA, Cambridge | <i>Star Formation in Cluster Galaxies</i> |
| E. Contributed Posters | | |
| 2013 | ngCFHT Workshop, Hilo, Hawaii | <i>Galaxy Evolution Research with the ngCFHT</i> |
| 2010 | CASCA, Halifax | <i>The GEEC Survey: Galaxy group evolution since $z=1$</i> |
| 2002 | Cozumel, Mexico | <i>Modified Entropy Models of the ICM</i> |
| 2000 | IAP | <i>Galaxy Evolution in Poor Groups</i> |
| 2000 | IAP | <i>Population Gradients in Galaxy Clusters</i> |
| 2000 | IAP | <i>Preheated Gas in Galaxy Clusters</i> |
| 1998 | IAP | <i>The X-ray Temperature and Luminosity Function of Galaxy Groups</i> |
| 1998 | IAP | <i>Star Formation in Galaxy Clusters</i> |