

# Curriculum Vitae

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## Education

### **Trinity College, Cambridge, United Kingdom**

Doctor of Philosophy, “Nuclear and Dynamical Evolution of Stellar Systems”  
Research carried out at the Institute of Astronomy, University of Cambridge  
October 1996 - December 1999  
Degree awarded July 22nd, 2000  
Cambridge Commonwealth Trust Scholarship

### **Monash University, Victoria, Australia**

Bachelor of Science Honours (Applied Mathematics), First Class  
February 1995 - November 1995  
  
Bachelor of Science (majors in Applied Mathematics and Physics)  
February 1989 - November 1994 (deferred 1990-91 for world travel/non-academic work)  
L.J. Gleeson Prize in Applied Mathematics Honours 1995  
Dean’s List Scholarship 1995  
Faculty Scholar 1994

### **Queenscliff High School, Victoria, Australia**

Victorian Certificate of Education  
January 1983 - December 1988  
English, Physics, Chemistry, Mathematics & Advanced Mathematics

## Employment

Staff Astrophysicist / Supercomputing Advisor

Swinburne University, Melbourne, Australia.

July 2006 - present

Research Fellow

Monash University, Melbourne, Australia.

September 2003 - June 2006

Post-doctoral Researcher (Hubble Fellow)

American Museum of Natural History, New York, USA

and Space Science Telescope Institute, Baltimore, USA.

September 2002 - August 2003

Post-doctoral Researcher (Kalbfleisch Fellow)

American Museum of Natural History, New York, USA.

September 2000 - August 2002

Research Assistant

Institute of Astronomy, University of Cambridge, United Kingdom.

January 2000 - August 2000

Supervisor in Mathematics Part III (Structure and Evolution of Stars)

Various Colleges, Cambridge, United Kingdom.

1998

Supervisor in Astrophysics Part II (Structure and Evolution of Stars)

Various Colleges, Cambridge, United Kingdom.

1997-2000

Research Mathematician

Commonwealth Science and Industry Research Organisation, Melbourne, Australia.

December 1995 - July 1996

Supervisor in Mathematics and Physics

Monash University, Victoria, Australia.

February 1995 - July 1996

Vacation Scholar

Mount Stromlo and Siding Springs Observatory, Canberra, Australia.

November 1994 - January 1995

## Publications

- “Probing the Faintest Stars in a Globular Star Cluster”,  
Richer H.B., Anderson J., Brewer J., Davis S., Fahlman G.G., Hansen B.M.S.,  
Hurley J. *et al.*,  
2006, *Science*, **313**, 936
- “Populating the Galaxy with low-mass X-ray binaries”,  
Kiel P.D. and Hurley J.R.,  
2006, *Mon. Not. R. Astron. Soc.*, **369**, 1152
- “Dynamical Effects Dominate the Evolution of Cataclysmic Variables  
in Dense Star Clusters”,  
Shara M.M. and Hurley J.R.,  
2006, *Astrophys. J.*, **646**, 464
- “A complete N-body model of the old open cluster M67”,  
Hurley J.R., Pols O.R., Aarseth S.J. and Tout C.A.,  
2005, *Mon. Not. R. Astron. Soc.*, **363**, 293
- “Inclusion of binaries in evolutionary population synthesis”,  
Zhang F., Han Z., Li L. and Hurley J.R.,  
2005, *Mon. Not. R. Astron. Soc.*, **357**, 1088
- “Metallicity effects on open cluster dynamics”,  
Hurley J.R., Tout C.A., Aarseth S.J. and Pols O.R.,  
2004, *Mon. Not. R. Astron. Soc.*, **355**, 1207
- “Integrated spectral energy distributions and absorption-feature indices of  
single stellar populations”,  
Zhang F., Han Z., Li L. and Hurley J.R.,  
2004, *Mon. Not. R. Astron. Soc.*, **350**, 710
- “Evolutionary population synthesis for binary stellar populations”,  
Zhang F., Han Z., Li L. and Hurley J.R.,  
2004, *Astron. and Astrophys.*, **415**, 117
- “Impersonal parameters from Hertzsprung-Russell diagrams”,  
Wilson R.E. and Hurley J.R.,  
2003, *Mon. Not. R. Astron. Soc.*, **344**, 1175
- “MODEST-2: a summary”,  
Sills A., Deiters S., Eggleton P., Freitag M., Giersz M., Heggie D., Hurley J.R. *et al.*,  
2003, *New Astronomy*, **8**, 605
- “Core radius evolution of star clusters”,  
Wilkinson M.I., Hurley J.R., Mackey A.D., Gilmore G.F. and Tout C.A.,  
2003, *Mon. Not. R. Astron. Soc.*, **343**, 1025
- “Could edge-lit type Ia supernovae be standard candles?”,  
Regös E., Tout C.A., Wickramasinghe D., Hurley J.R. and Pols O.R.,  
2003, *New Astronomy*, **8**, 283

- “White Dwarf Sequences in Dense Star Clusters”,  
Hurley J.R. and Shara M.M.,  
2003, *Astrophys. J.*, **589**, 179
- “Colour indices of single stellar populations”,  
Zhang F., Han Z., Li L. and Hurley J.R.,  
2002, *Mon. Not. R. Astron. Soc.*, **334**, 883
- “Star Clusters as Type Ia Supernova Factories”,  
Shara M.M. and Hurley J.R.,  
2002, *Astrophys. J.*, **571**, 830
- “The Promiscuous Nature of Stars in Clusters”,  
Hurley J.R. and Shara M.M.,  
2002, *Astrophys. J.*, **570**, 184
- “Evolution of Binary Stars and the Effect of Tides on Binary Populations”,  
Hurley J.R., Tout C.A. and Pols O.R.,  
2001, *Mon. Not. R. Astron. Soc.*, **329**, 897
- “Free-Floating Planets in Stellar Clusters: Not So Surprising”,  
Hurley J.R. and Shara M.M.,  
2002, *Astrophys. J.*, **565**, 1251
- “The Solar Neighbourhood Age-Metallicity Relation - does it exist?”,  
Feltzing S., Holmberg J. and Hurley J.R.,  
2001, *Astron. and Astrophys.*, **377**, 911
- “Young star clusters in the Large Magellanic Cloud: NGC 1805 and NGC 1818”,  
Johnson R.A., Beaulieu S.F., Gilmore G.F., Hurley J., Santiago B.X., Tanvir N.R. and  
Elson R.A.W.,  
2001, *Mon. Not. R. Astron. Soc.*, **324**, 367
- “Direct  $N$ -body Modelling of Stellar Populations: Blue Stragglers in M67”,  
Hurley J.R., Tout C.A., Aarseth S.J. and Pols O.R.,  
2001, *Mon. Not. R. Astron. Soc.*, **323**, 630
- “The Formation of Bound Star Clusters: From the Orion Nebula Cluster to the Pleiades”,  
Kroupa P., Aarseth S. and Hurley J.,  
2001, *Mon. Not. R. Astron. Soc.*, **321**, 699
- “Comprehensive Analytic Formulae for Stellar Evolution as a Function of  
Mass and Metallicity”,  
Hurley J.R., Pols O.R. and Tout C.A.,  
2000, *Mon. Not. R. Astron. Soc.*, **315**, 543
- “The Binary Second Sequence in Cluster Colour-Magnitude Diagrams”,  
Hurley J. and Tout C.A.,  
1998, *Mon. Not. R. Astron. Soc.*, **300**, 977
- “The Binary Population of the Young LMC Cluster NGC 1818”,  
Elson R.A.W., Sigurdsson S., Davies M.B., Hurley J. and Gilmore G.F.,  
1998, *Mon. Not. R. Astron. Soc.*, **300**, 857

“Stellar Evolution Models for  $Z = 0.0001$  to  $0.03$ ”,  
Pols O.R., Schröder K.-P., Hurley J.R., Tout C.A. and Eggleton P.P.,  
1998, *Mon. Not. R. Astron. Soc.*, **298**, 525

“Discovery of a Luminous White Dwarf in a Young Star Cluster in the  
Large Magellanic Cloud”,  
Elson R.A.W., Sigurdsson S., Hurley J., Davies M.B. and Gilmore G.F.,  
1998, *Astrophys. J.*, **499**, L53