Thomas J. Haworth - Academic CV

PERSONAL DETAILS

Address:

School of Physics University of Exeter Stocker Road Exeter, Devon EX4 4QL Date of Birth: 4th July 1988 Phone: 07792070242 Email: haworth@astro.ex.ac.uk Web: http://www.astro.ex.ac.uk/people/haworth

REFEREED PUBLICATIONS

Haworth, Thomas J.; Harries, Tim J.; Acreman, David M., Testing diagnostics of triggered star formation, 2012, MNRAS, 426, 203

Haworth, Thomas J.; Harries, Tim J., Radiation hydrodynamics of triggered star formation: the effect of the diffuse radiation field, 2012, MNRAS, 420, 562

Haworth, Thomas J.; Harries, Tim J.; Acreman, David M.; Rundle, David A., Assessing molecular line diagnostics of triggered star formation using synthetic observations., 2012, Submitted to MNRAS (ArXiv:TBC)

OTHER PUBLICATIONS

Harries, Tim J., Haworth, Thomas J.; Acreman, David M., Radiation hydrodynamics simulations of massive star formation using Monte Carlo radiation transfer, 2012, The Labyrinth of Star Formation.

Haworth, Thomas J.; Harries, Tim J., Acreman, David M., Testing models of triggered star formation: theory and observation, 2012, The Labyrinth of Star Formation.

EDUCATION

Studying for PhD University of Exeter Astrophysics group	since $10/2010$
MPhys Physics with Astrophysics (1st Class with Honours) University of Exeter	2006-2010
PROFESSIONAL ASSOCIATIONS	
Fellow of the Royal Astronomical Society (RAS)	since 2010
Member of the Institute of Physics (IOP)	since 2009
ACADEMIC AND OTHER AWARDS	
University of Exeter, School of Physics school prize	2010
University of Exeter, Dean's commendation	2010
Shell Step Award. Best IT placement (Essex)	2009
Shell Step Award. Runner up overall placement (Essex)	2009
WORK EXPERIENCE	
keeping in scientific research.	2012
Working with the Exeter Data Archive team to	
facilitate archiving on the university supercomputer, ZEN	2012

Royal Bank of Scotland. Data Analyst	Summer 2008, 2010
Prospects College. Database and intranet development as part of the Shell Step program.	2009
TEACHING EXPERIENCE	
1 st year astrophysics laboratory tutor	2012 - 2013
1^{st} year physics laboratory tutor	2010 - 2013
Completed the Student Associates Scheme (SAS)	2008
CONFERENCES AND EVENTS	
Mind The Gap.	
Institute of Astronomy, Cambridge. Talk.	08/07/2013-12/07/2013
RAS National Astronomy Meeting.	
University of St Andrews. Talk.	01/07/2013- $05/07/2013$
Nordita photo-evaporation in astrophysical systems meeting.	
Nordita, Stockholm. Talk.	01/06/2013- $28/06/2013$
Starbench code comparison workshop.	
Exeter University. LOC.	08/04/201311/04/2013
Galaxy evolution seminar.	
Oxford University. Talk .	17/01/2013
	, ,
DiRAC science day.	
University of Glasgow. Talk.	06/09/2012
The labyrinth of star formation.	
Kolymbari, Crete. Poster .	18/05/2012-22/05/2012
RAS National Astronomy Meeting.	
University of Manchester. Talk.	27/03/2012 – 30/03/2012
DiRAC science day.	
University College London. Poster	15/09/2011
v 0	, ,

Outreach: AimHigher 'Meet the scientist' (2011), Physics in the field (2010), Westgate science club (2010)

OTHER SKILLS

Programming: fortran, python, html, bash scripting, SQL, C.

Parallelization: MPI, openMP, hybrid methods

Operating systems: Max OSX, Ubuntu Linux, Windows

RESEARCH INTERESTS

Star formation: Massive stars, radiative feedback, star forming regions, radiatively driven implosion, triggered star formation

Radiation hydrodynamics: AMR, Monte Carlo photoionization, hydrodynamics

Synthetic observations: SED's, forbidden line, molecular line, radio and dust continuum imaging