

# David J. A. McKechn

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## CONTACT

[REDACTED], Cardiff [REDACTED]  
[REDACTED] (Mobile) [REDACTED]

## EDUCATION

2006-2010 PhD PHYSICS, CARDIFF UNIVERSITY

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'A new algorithm for gravitational wave data analysis.'

- Worked effectively in a large and multi-disciplinary international collaboration.
- Presented work to audiences of over 200.
- Led a project team and delivered the project on time.
- Advanced computing skills to solve complex problems.

2001-2005 MPhys PHYSICS (1ST CLASS HONS.), UNIVERSITY OF SUSSEX

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- First class grades for final year project and third and fourth year presentations.
- Thirty-four other first class modules, including:  
*Introduction to C, Laboratories, Mathematics for Physics, Numerical Modelling & Skills in Physics Problem Solving.*

1999-2001 WEYMOUTH COLLEGE, WEYMOUTH

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A-levels: Computing A, Mathematics A, Physics A.

1999 THE WEY VALLEY SCHOOL, WEYMOUTH

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10 GCSEs: Mathematics A, Science AA, English BB.

## SKILLS

TEAMWORK AND LEADERSHIP

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Successfully led a project team of seven members as part of an international collaboration during my PhD. Responsible for project completion. Previously developed leadership skills as a snowboard instructor.

COMMUNICATION:

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Presented throughout degree and PhD to large and small audiences, aimed at colleagues, peers and the general public. Also took part in outreach activities and helped to run University admission days.

PROBLEM SOLVING

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Developed problem solving skills in research by working within constraints, dealing with unexpected results/consequences and solving computing bugs.

COMPUTING

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Parallel computing (Condor), C, Python, MATLAB, html, CSS, apache, across multiple platforms. Employed on a casual basis during PhD to help with the systems administration of the gravitational physics group.

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## EMPLOYMENT

SUMMER 2006: SNOWBOARD INSTRUCTOR  
DORSET SNOWSPORT CENTRE, WARMWELL

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- Qualified Instructor (BASI).
- Fully responsible, including safety, for classes of up to ten.
- Taught varying ages and personalities, often within a single lesson.

SUMMER 2004, 2005, 2006 & AUTUMN 2005: TEMPORARY WORKER  
FLEET PERSONNEL, DORCHESTER AND ADECCO, WEYMOUTH

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A variety of roles in many different places ranging from office clerk to loading lorries in a distribution centre. (Further information available).

SUMMER 2003: DORSET MAIZE MAZE, DORCHESTER

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Assisted admissions, instructing customers, refreshments, maintenance and even helping with farm duties.

SUMMER 2002: CINEWORLD, WEYMOUTH

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Admissions, refreshments and cleaning.

## INTERESTS

RUNNING

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Enter several races a year, including marathons (e.g., Edinburgh, Cardiff). Raised £1000 running for various charities and volunteered to help at other events.

TRAVEL

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Between 2005 and 2006 spent 4 months exploring Canada, funded by saving summer and autumn earnings in 2005.

RUSSIAN LANGUAGE

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Completed a 24 week course in beginners Russian (88%) and continuing with an intermediate course.

## REFEREES

Professor B. S. Sathyaprakash  
Supervisor

School of Physics  
Cardiff University  
5 The Parade  
Cardiff  
CF24 3AA  
[REDACTED]

Professor Alan Weinstein  
Co-chair of collaborative group

California Inst. of Technology  
256-48 Caltech  
Pasadena CA  
91125  
USA  
[REDACTED]

(Referees from seasonal work also available.)