

# David Cristinacce

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Nationality: British

DOB: 22/01/1976

## *Current Post*

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Post doctoral research position at the University of Manchester. Working on a new three year grant entitled "Cognitive Systems Foresight: Human and Computer Face Recognition from Video Sequences". Current contract runs Oct 2006-Oct 2009.

## *Qualifications*

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- PhD Computer Vision, Manchester University, 2004.
- MSc Cognitive Science, Manchester University, 2000.
- MA Hons Mathematics (2:1), Cambridge University, 1997.
- A-level Mathematics(A), Chemistry(A), Physics(A), General Studies(A), 1994.
- G.C.S.E 10 Subjects (8A/2B), 1992.

## *Achievements*

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- Research Associate
  - Best Science Paper Prize (British Machine Vision Conference 2006)
  - Industrial collaboration with major car manufacturer
- PhD in Computer Vision
  - Thesis entitled "**Automatic Detection of Facial Features in Grey Scale Images**"
  - Developed novel algorithms for facial feature location (see publications)
  - Implemented Viola-Jones face detector, integrated into following projects
    - \* SCID - Secure Customer Identification for Drive-in Retailing
    - \* UFACE - User Friendly Access Control System
  - Collected and organised mark up of face images for the FGNET (Face and Gesture Network) project
- Chess
  - Twice winner of Yorkshire U18's Junior Championship
  - Half Blue - represented Cambridge in the Varsity Match three times

## *Research Interests*

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- Face detection in unconstrained environments
- Facial feature localisation and model matching
- Shape modelling
- Face recognition and biometrics
- Facial expression recognition

## *Academic Prizes*

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- Best Science Paper Prize (British Machine Vision Conference 2006)

## *Publications*

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- **Feature Detection and Tracking with Constrained Local Models (Best Science Paper Prize)**  
David Cristinacce and Tim Cootes  
Proceedings of 17th BMVA British Machine Vision Conference, Pages 929-938, Edinburgh, Scotland, September, 2006.
- **Facial Feature Detection and Tracking with Automatic Template Selection**  
David Cristinacce and Tim Cootes  
Proceedings of 7th IEEE International Conference on Automatic Face and Gesture Recognition, Pages 429-434, Southampton, UK, April, 2006.
- **A Multi-Stage Approach to Facial Feature Detection**  
David Cristinacce, Tim Cootes and Ian Scott  
Proceedings of 15th BMVA British Machine Vision Conference, Pages 277-286, London, UK, September, 2004.
- **A Comparison of Shape Constrained Facial Feature Detectors**  
David Cristinacce and Tim Cootes  
Proceedings of 6th IEEE International Conference on Automatic Face and Gesture Recognition, Pages 375-380, Seoul, South Korea, May, 2004.
- **Facial Feature Detection using AdaBoost with Shape Constraints**  
David Cristinacce and Tim Cootes  
Proceedings of 14th BMVA British Machine Vision Conference, Pages 231-240, Norwich, UK, September, 2003.
- **A Comparison of two Real-Time Face Detection Methods**  
David Cristinacce and Tim Cootes  
Proceedings of 4th IEEE International Workshop on Performance Evaluation of Tracking and Surveillance, Pages 1-8, Graz, Austria, April, 2003.

## *Career Overview*

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- New Post Doctoral Research Post (Cognitive Systems Foresight)  
October 2006 to present  
Department of Imaging Science and Biomedical Engineering, Stopford Building, Manchester University, Oxford Road, Manchester, M13 9PT, UK.
- Post Doctoral Research Post (In-Car Face Tracking)  
October 2004 to October 2006  
Department of Imaging Science and Biomedical Engineering, Stopford Building, Manchester University, Oxford Road, Manchester, M13 9PT, UK.
- PhD Computer Vision  
October 2000 to October 2004  
Department of Imaging Science and Biomedical Engineering, Stopford Building, Manchester University, Oxford Road, Manchester, M13 9PT, UK.
- MSc Cognitive Science  
September 1999 to September 2000  
Department of Computer Science, Kilburn Building, Manchester University, Oxford Road, Manchester, M13 9PL, UK.
- Trainee Actuary  
September 1997 to September 1999  
Watson Wyatt Partners, Norfolk House, 7 Norfolk Street, Manchester, M2 1DW, UK.
- MA Hons Mathematics  
October 1994 to June 1997  
St. Catharine's College, Cambridge University, Trumpington Street, Cambridge, CB2 1RL, UK.
- A-levels and G.C.S.Es  
October 1987 to June 1994  
Wath Comprehensive School, Sandygate, Wath-on-Deerne, Rotherham, South Yorkshire, S63 7NW, UK.

## *Hobbies*

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- Swimming - Swim twice per week
- Chess - Occasionally play tournament and internet chess
- Cycling - In March 2003 I completed the 80 mile "Bogle" cycle ride
- Travel - Recently visited South Korea and Japan

## *References*

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- **Dr Tim Cootes** (PhD Supervisor)  
Senior Lecturer, Imaging Science & Biomedical Engineering  
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- **Professor Chris Taylor** (Head of Computer Science Department)  
Chair in Medical Biophysics, Imaging Science & Biomedical Engineering  
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- **Dr Jim Graham** (MSc Course Lecturer)  
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