

# APPU SHAJI

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**Research Interest** My research interests lie primarily in Computer Vision, but am also interested in computer graphics and machine learning.

**Education** **IIT Bombay** July 2003 - Fall 2008 (expected)  
PhD Student in Computer Science Advisor: Sharat Chandran

**Monash University** Feb 2007 - Aug 2007  
Visiting Scholar at Digital Perception Lab, ECSE Dept. Advisor: David Suter

**College of Engineering, Chengannur** 1998 - 2002  
Bachelor of Technology in Computer Science Graduated with Highest Honours

**Publications** **Manifold Optimisation for Motion Factorisation**  
Authors: Appu Shaji, David Suter and Sharat Chandran  
*International Conference on Pattern Recognition 2008*

**Riemannian Manifold Optimisation for Non-rigid Structure from Motion**  
Authors: Appu Shaji and Sharat Chandran  
*Workshop on Non-rigid Shape Analysis and Deformable Image Alignment, CVPR 2008*

**Human Pose Extraction from Monocular Videos using Non-rigid Factorization**  
Authors: Appu Shaji, Behjat Siddiquie, Sharat Chandran and David Suter  
*British Machine Vision Conference 2007*

**Vision-Based Posing of 3D Virtual Actors**  
Authors: Ameya Vaidya, Appu Shaji and Sharat Chandran  
*Asian Conference of Computer Vision 2006*

**Markerless Motion Capture from Monocular Videos**  
Authors: Vishal Mammania, Appu Shaji and Sharat Chandran  
*Indian Conference on Computer Vision, Graphics and Image Processing 2004*

**Invited Talks** **Constrained Factorization** Feb 2008  
Indo-Israel Workshop on Computer Vision, Hyderabad, India  
*Presented by Prof. Sharat Chandran*

**Monocular Human Motion Extraction using Non-rigid Factorization** March 2007  
Department of Electrical and Computer System Engineering, Monash University

**Honours and Awards**

1. Recipient of Philips Fellowship Award for the years 2006-2008
2. Awarded the Endeavour Research Fellowship Award, 2007 from DEST, Australian Government
3. Achieved 97.05 percentile in GATE 2003, the Graduate Aptitude Test in Engineering in stream Computer Science and Engineering.

**Teaching** CS 663, DIGITAL IMAGE PROCESSING Fall 2006 and Fall 2007  
Teaching Assistant

CS 101, COMPUTER PROGRAMMING AND UTILIZATION Fall 2004 and Fall 2005  
Head, Teaching Assistant

CS 475, OPEN GL BASED BASIC GRAPHICS Spring 2004  
Teaching Assistant

**Work Experience** **Vision Graphics and Imaging Lab** System Administration,  
Computer, Science and Engineering Department, IIT Bombay 2003 - present

**MA College of Engineering** Guest Lecturer  
Kothamangalam, Kerala, India Jan 2003- June 2003

**Activities** **Organisation Volunteer** ICVGIP 2004  
ICVGIP (<http://www.icvgip.org>) is a Tier-II rated international conference on computer vision and graphics organised by the research community in India. I created and maintained the online portal for the paper submission for the conference (including the PC online meeting). I was also responsible for maintaining the web page and the mailing-list for the conference.

**Organisation Volunteer** WCVGIP 2004  
WCVGIP is a National level workshop on computer vision and graphics organised by the research community in India. I created and maintained the online portal for the paper submission for the workshop.

**Operations** ACM INTERCOLLEGIATE PROGRAMMING CONTEST 2004  
I was one of the member for the core operations team for the ACM asia-regional ICPC (<http://www.cse.iitb.ac.in/acm>). My responsibility included, (but was not limited to) communications with the team members, hospitality arrangements and media management.

**Organisation Volunteer** CVPR 2008  
Worked behind the registration desk.

**Skill Set** Proficient in Matlab/Octave, C/C++

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**Reference** Prof. Sharat Chandran  
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