Rohit Pandharkar

E14, Camera Culture, MIT Media Lab   web.media.mit.edu/~rohitp/   rohitp@mit.edu   6177687633

Education

Massachusetts Institute of Technology, MA   Media Lab   *Class of 2011*
Graduate student & Research Assistant, [SM in Digital Media and Communications]   **GPA 5.0/5.0**

College Of Engineering Pune, MH   *Class of 2009*
 [B.Tech in Electronics and Telecom]   **GPA 9.17** on absolute scale of 10, **Dept rank 2** in a class of 77

Research

Full resolution imaging using spatially varying filter camera
Lens aberration correction using mask based light field cameras
Compressive sensing based light field transport
Senior year project: Simultaneous encryption and compression of images
Summer Internship at IIT Bombay 2008: Development of new algorithms for joint source-channel coding
and encryption of signals

Relevant Course work

Optimization, and Inverse Problems (18.086, Prof. J. C. Nave), Computational Photography (Prof. Raskar),
Computational Methods for Engineers (Graduate Linear Algebra, 18.085 Prof. Strang), , Image Processing
and Pattern Recognition, Advanced Digital Signal Processing, Digital Signal Processing, Information
Theory, Digital Communication, Broadband Communication, Analog Communication, Video Audio
Engineering, Telecom Switching Networks, Computer Networks, Fiber Optic Communication, Data
structures and algorithms for optimization

International Achievements and Publications

2008 Member of Indian Team for International Finals of 'LOREAL ENGINEERING INGENIUS 08', 12-18
March 08, Paris, France (Indian team was **ranked 4th** out of 13 countries)

2008 'Statistical Findings and Analysis of GPRS Services in India', proceedings of IET UK International
Conference on Wireless and Multimedia Networks 11-12 Jan 08, Mumbai (Guided by Dr. Shim, USA)

2008 'A New Method for generation of common keys using Transcendental functions and Generalization of
Diffie Hellman Protocol', Rohit Pandharkar, M. A. Joshi, IEEE Tencon International Conference 2008,
Hyderabad India

2007 **Ranked 3rd out of national winners from 40 countries** at International Finals for Student
research by IET-UK PATW 2007, 7-9 Nov 2007 Amsterdam, Netherlands

2007 'A Provably secure message transfer system using Euler's totient function', proceedings of IADIS
MCCSIS TNS-2007, Lisbon, Portugal.3-7 July 07.

Awards and Honors

2009 Narotam Sekhsaria Fellow 2009 (awarded to 10 students all over India)
2009 Center for Future Storytelling Fellow : 2009-2010 MIT Media Lab
2008 IET-UK International Scholarship 2008 for undergraduate research
2007 Dr. V. M. Deshpande Scholarship for student research,   Maharashtra Talent Search Scholarship 2002

Leadership and Service

2009 -2010 MIT Media Lab India Initiative, VP Outreach
2008-2009 President Student Alumni Coordination Cell, CoEP
 2007-2008 President IET UK Pune Chapter
2007-2008 Organizer 'CoEP Global Alumni Reunion 2008

References: Directorial, Dean and Executive level. Available on request.