

Rahul Garg

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Objective

A summer internship involving research in Computer Vision and Graphics.

Education

- **University of Washington**, Seattle, WA **2007 - Present**
Ph.D. candidate in Computer Science and Engineering
Advisor: Prof. Steven M. Seitz
 - **Indian Institute of Technology (IIT) Delhi**, India **2003 - 2007**
Bachelor of Technology in Computer Science and Engineering
(GPA: 9.91/10.0, President's Gold Medal)
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Publications

- R. Garg, H. Du, S.M. Seitz and N. Snavely. **The Dimensionality of Scene Appearance**, *In Proc. of the IEEE International Conference on Computer Vision (ICCV), Kyoto, Japan, October 2009*
 - N. Snavely, R. Garg, S.M. Seitz and R. Szeliski. **Finding Paths through the World's Photos**, *ACM Trans. on Graphics (Proc. of SIGGRAPH 2008)*
 - M. Varma and R. Garg. **Locally Invariant Fractal Features for Statistical Texture Classification**, *In Proc. of the IEEE International Conference on Computer Vision (ICCV), Rio De Janeiro, Brazil, October 2007*
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Experience

- **Research Assistant at University of Washington** **Fall 2007 - Present**
Ongoing work on using large Internet Photo Collections for Computer Vision.
- **Research Intern at Microsoft Research Redmond** **Summer 2008**
Mentor: Dr. Richard Szeliski
Worked on the problem of detecting and matching features across images of man made scenes.
- **Research Engineer at B-Core Software Pvt. Ltd., New Delhi** **Summer 2007**
Worked on an application for mobile platforms to decode color codes from an image of a colored sequence (analogous to bar codes).
- **Research Intern at Microsoft Research India** **Summer 2006**
Guide: Dr. Manik Varma
Worked on developing locally invariant fractal features which allow for statistical analysis and classification of textures

- **Summer Internship at IIT, Delhi**

Summer 2005

Guide: Prof. Subhashis Banerjee

Worked on detecting vehicles in a video stream. Recipient of prestigious **SURA** (Summer Undergraduate Research Award), 2005 awarded by Industrial Research and Development Unit (IRD), IIT Delhi

Talks

- **Finding Paths through the World's Photos** (with Noah Snaveley)
SIGGRAPH 2008, Los Angeles, CA, August 2008.
 - **Beyond Photo Tourism: Guided Navigation of Internet Photo Collections**
Indian Institute of Technology (IIT) Delhi, India, September 2008.
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Academic Achievements

- Recipient of **NVIDIA Fellowship** for the year 2009-2010.
 - Recipient of the **Weil Family Endowed Fellowship** for the year 2007-2008 at the University of Washington
 - Recipient of the **Clairmont L. Egtvedt Fellowship** awarded by College of Engineering, University of Washington, 2007-2008
 - Awarded the **President of India Gold Medal** for securing the highest cumulative GPA among all outgoing B.Tech. students across all disciplines in 2007 batch, IIT Delhi
 - Secured All India Rank **7** among 172,000 candidates in IIT-Joint Entrance Examination 2003
 - Secured Rank **1** in Common Engineering Test (Delhi) 2003, Rank **18** in All India Engineering Entrance Examination 2003
 - Selected for NTSE (National Talent Search Examination) Scholarship awarded by the Govt. of India
 - Selected for Training Camp, Indian National Physics Olympiad 2003
 - Awards in many mathematics contests - RMO (Regional Mathematics Olympiad), SMO (Senior Mathematics Olympiad), etc.
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Skills

- Experienced with Unix/Linux and Windows platforms
 - Extensive use of C/C++, MATLAB
 - Familiar with Java, C#, Silverlight, HTML
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Extracurricular Activities

- Avid interest in programming competitions
 - Among top 12 finalists in TopCoder Open 2008 Marathon competition, an international event hosted by www.topcoder.com
 - Among top 500 onsite finalists in Google Code Jam 2008, an international programming contest organized by Google
 - Among top 50 finalists in Google Code Jam India, 2006 - Programming Contest organized by Google which attracted over 14,000 participants from South East Asia

- Problem setter for International Online Programming Contest organized during Tryst 2007, the technical festival of IIT Delhi
 - Represented IIT Delhi in ACM International Collegiate Programming Contest 2007
 - Completed 100 hours of social service under NSS (National Service Scheme)
 - Tutored undergraduate students at University of Washington during Fall 2008, Fall 2009.
 - Active member of HinduYUVA - a cultural group on UW campus
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References

- **Steven Seitz**
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 - **Noah Snively**
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