

Résumé: Aditya Rajiv Deshpande

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Education	PhD in Computer Science (Aug 2014 - Present) University of Illinois at Urbana-Champaign, USA Advisor: <i>Prof. David Forsyth</i>
	B. Tech. with MS by Research in Computer Science (Aug 2008 - July 2014) International Institute of Information Technology, Hyderabad, India Advisor: <i>Prof. P J Narayanan</i>
Selected Publications	Learning Large-Scale Automatic Image Colorization in Proceedings of <i>International Conference on Computer Vision, ICCV</i> , Dec 2015, Santiago, Chile.
	Fast Burrows Wheeler Compression Using All-Cores in Proceedings of <i>Workshop on Accelerators and Hybrid Exascale Systems</i> , May 2015, Hyderabad, India.
	Revisiting Incremental Structure from Motion in Proceedings of <i>International Conference on 3D Vision, 3DV</i> , Dec 2014, Tokyo, Japan.
	Can GPUs Sort Strings Efficiently? in Proceedings of <i>International Conference on High Performance Computing</i> , Dec 2013, Bangalore, India. (Best GPU Paper)
	Geometry Directed Browser for Personal Photographs in <i>Indian Conference on Vision, Graphics and Image Processing</i> , Dec 2012, Mumbai, India.
	Hybrid Implementation of Error Diffusion Dithering in Proceedings of <i>International Conference on High Performance Computing</i> , Dec 2011, Bangalore, India.
Experience	Research Assistant , UIUC, IIIT-H Spring'15-Present, Fall'10-Spring'14 <ul style="list-style-type: none">• At IIIT Hyderabad, advised by Prof. P J Narayanan on GPU computing and SfM.• At UIUC, with Prof. David Forsyth on regression methods for low-level vision tasks.
	Software Intern , Apple Inc, California, USA Summer'15,'16 <ul style="list-style-type: none">• Worked with Special Projects Group.
	Teaching Assistant , IIIT H, University of Illinois Spring'12, Fall'12,14 <ul style="list-style-type: none">• CS225 (Data Structures) at UIUC and Data Structures, IT Workshop at IIIT-H.• Responsibilities included teaching lab/tutorial, conducting office hours and grading.
	Software Engineering Intern , Google, Bangalore, India Summer'11 <ul style="list-style-type: none">• Contributed code to production, wrote unit, integration & webdriver tests.
	Software Developer , Google Summer of Code Summer'12 <ul style="list-style-type: none">• Faster j2k decoding/encoding using GPUs, pushed code to the git branch of JPEG2000.
Awards & Service	Best GPU Paper award at IEEE Intl. Conf. on High Performance Computing.
	Dean's Merit List, Research Award of IIIT-H. (Fall'08, Spring'11,12)
	Reviewer for JPDC, IEEE TPAMI, IEEE TIP . (2014)
	Awarded the National Talent Search Scholarship (by NCERT). (2006)
	Secured merit position in state/national level exams: Maharashtra Talent Search, Junior Maths Olympiad, Abacus, National Standard Exam in Physics, National Science Day Quiz .
Major Projects	Image Regression: For low-level vision tasks (ongoing).
	Structure from Motion: Fast algorithm, 3D Photo-Viewer.
	GPU Computing: Data Compression, String Sorting & Error-Diffusion Dithering.
	Computational Photo.: Poisson editing, Image-based rendering, Motion analogy.
	Vision: RGB-D segmentation, News video summarization, Distributed 3D rendering.
	Software dev.: IIIT Mess (eatery) portal, 1500 active users till date.