## Abdullah Bulbul

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Post-Doctoral Research	UC Berkeley, School of Optometry, Berkeley, CA Marty Banks' Lab Vision Science	2012
Ph.D.	<b>Bilkent University, Faculty of Engineering, Ankara, Turkey</b> Department of Computer Engineering Scholarship awarded by TUBITAK Supervisor: Asst. Prof. Tolga Capin CGPA = 3.67 / 4.00	2007 - 2012
B.S.	<b>Bilkent University, Faculty of Engineering, Ankara, Turkey</b> Department of Computer Engineering Full scholarship awarded by Bilkent University CGPA = 3.55 / 4.00	2003 - 2007
Areas of Interest	Computer Graphics Perception in Computer Graphics Visual Attention Depth Perception 3D Displays Mobile Computer Graphics Human Computer Interaction	
Experience	<ul> <li>Post-Doctoral researcher, University of California, Berkeley</li> <li>Research assistant, ALGI, Perceptually Aware 3-D Computer Graph</li> <li>Research assistant, 3D-Phone, EU 7th Framework Project</li> <li>Teaching assistant, Bilkent University <ul> <li>Algorithms and Programming I &amp; II</li> <li>Computer Graphics I</li> </ul> </li> </ul>	2012-current hics 2010-2012 2007-2011 2007-2012
	Summer trainee, T.C. Merkez Bankasi Summer trainee, Mobiliz Bilgi ve İletişim Teknolojileri A.Ş.	Summer 2006 Summer 2006
Computer Skills	C, C++, Java, Matlab, SQL, OpenGL, PHP, GLSL (Advance) Assembly, Verilog, C# (Beginner)	
Awards and Honors	3 semesters for High Honor student, 4 semesters for Honor student Member of winner team: SoftwareQuest, CS102 Project Ranked 67th in National University Entrance Examination in quantitative (among 1.5 million attendees)	2003-2007 2004 2003
Languages	Turkish (Native), English (Advance), German (Beginner), Arabic (Beg	inner)

Projects	Perception of Surface Materials 2013-2014 The effects of accommodation, binocular vision, and motion parallax on material per- ception are investigated. Volumetric multi-plane display is used to provide correct focal cues.
	<b>Optimized rendering for Multi-plane Volumetric Displays</b> 2013 A rendering method enabling near-correct presentation of occlusions, reflections, and blur on multi-plane volumetric displays.
	<b>3DPhone: All 3D Imaging Phone</b> 2008-2010 A project under EU's 7th framework program. We have developed a mobile device prototype to increase mobile 3D experience. I was responsible for development of 3D rendering system and applications and research about 3D interaction methods and depth perception. Collaborators: Billkent University, Holografika, Telefonica, TAT, Fraunhofer, and Helsinki University
	ALGI: Perceptually Aware Computer Graphics 2011-2012 A research projecy funded by TUBITAK (Scientific and Technological Research Council of Turkey). I have mainly worked on determining the visually important regions in a 3D scene and utilizing this information for various computer graphics applications like mesh simplification, artistic rendering, and stereoscopic rendering optimization
Journal Publications	<ol> <li>Rahul Narain, Rachel Albert, Abdullah Bulbul, James F. O'Brien, Gregory Ward, Martin Banks, "Optimal Presentation of Imagery with Focus Cues on Multi-Plane Displays", In Preparation.</li> </ol>
	<ol> <li>Abdullah Bulbul, Sami Arpa, Tolga Capin, 'A Clustering-Based Method to Estimate Saliency in 3D Animated Meshes", <i>Computers &amp; Graphics</i>, to appear, 2014.</li> </ol>
	3. Zeynep Cipiloglu, <b>Abdullah Bulbul</b> , Tolga Capin, "A Framework for Applying the Principles of Depth Perception to Information Visualization", <i>ACM Trans-</i> <i>actions on Applied Perception</i> , 10-4, art.n.19, 2013.
	<ol> <li>Sami Arpa, Abdullah Bulbul, Tolga Capin, Bulent Ozguc, "Perceptual 3D Rendering based on Principles of Cubism", <i>Computers &amp; Graphics</i>, 36-8, p.991- 1004, 2012.</li> </ol>
	<ol> <li>Abdullah Bulbul, Tolga Capin, Guillaume Lavoué, Marius Preda, "Assessing Visual Quality of 3-D Polygonal Models", <i>IEEE Signal Processing Magazine</i>, 28- 6, p.80-90, 2011.</li> </ol>
	<ol> <li>Abdullah Bulbul, Zeynep Cipiloglu, Tolga Capin, "A Color-Based Face Track- ing Algorithm for Enhancing Interaction with Mobile Devices", <i>The Visual Com-</i> <i>puter</i>, 26-5, p.311-323, 2010.</li> </ol>
	<ol> <li>Abdullah Bulbul, Zeynep Cipiloglu, Tolga Capin, "A Perceptual Approach for Stereoscopic Rendering Optimization", Computers &amp; Graphics, 34-2, p.145-157, 2010.</li> </ol>
Conference Publications	<ol> <li>Martin Banks, Abdullah Bulbul, Marina Zannoli, Rachel A Albert, Rahul Narain, James F OBrien, Gregory Ward "The Perception of Surface Material from Disparity and Focus Cues", Annual Meeting of Vision Sciences Society, 2014.</li> </ol>
	<ol> <li>Rachel A. Albert, Marina Zannoli, Abdullah Bulbul, Rahul Narain, James F. OBrien, Martin Banks, "Can 3D Shape be Estimated from Focus Cues Alone?", Annual Meeting of Vision Sciences Society, 2014.</li> </ol>

	3. Marina Zannoli, Rachel A. Albert, <b>Abdullah Bulbul</b> , Rahul Narain, James F. OBrien, Martin Banks, "Correct blur and accommodation information is a reliable cue to depth ordering", Annual Meeting of Vision Sciences Society, 2014.
	<ol> <li>Gokcen Cimen, Abdullah Bulbul, Bulent Ozguc, Tolga Capin, "Perceptual Caricaturization of 3D Models", Computer and Information Sciences III, (Pro- ceedings of ISCIS 2012), 201-207, 2013.</li> </ol>
	<ol> <li>Sami Arpa, Abdullah Bulbul, Tolga Capin, "A Decision Theoretic Approach to Motion Saliency in Computer Animations", <i>Motion in Games Lecture Notes</i> in Computer Science, Volume 7060/2011, 168-179, 2011.</li> </ol>
	<ol> <li>Abdullah Bulbul, Cetin Koca, Tolga Capin, Ugur Gudukbay, "Saliency for Animated Meshes with Material Properties", <i>Proceedings of the APGV'10</i>, 2010.</li> </ol>
	<ol> <li>Zeynep Cipiloglu, Abdullah Bulbul, Tolga Capin, "A Framework for Enhancing Depth Perception in Computer Graphics", Proceedings of the APGV'10, 2010.</li> </ol>
	8. <b>Abdullah Bulbul</b> , Zeynep Cipiloglu, Tolga Capin, "A Face Tracking Algorithm for User Interaction in Mobile Devices", <i>Cyberworlds</i> , 2009
	<ol> <li>Abdullah Bulbul, Onur Kucuktunc, Bulent Ozguc, "Animation of Boiling Phe- nomena", Proceedings of 3DTV-CON, May 2008, IEEE Xplore Electronic Publi- cations, Istanbul, Turkey, 2008.</li> </ol>
References	Martin Banks UC Berkeley, Vision Science Email: martybanks@berkeley.edu Phone: +1 510-642-9341 Web: http://bankslab.berkeley.edu/
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	Ugur Gudukbay Bilkent University, Computer Engineering Department Email: gudukbay@cs.bilkent.edu.tr Phone: +90 (312) 290 1386 Web: http://www.cs.bilkent.edu.tr/~gudukbay/