

# Alex Kuhl

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CONTACT INFORMATION	alex_kuhl  AT  ncsu.edu	<a href="http://www.alexkuhl.org">http://www.alexkuhl.org</a>
INTERESTS	Education, Graphics, Visualization, HCI, Vision, Robotics	
EDUCATION	<b>North Carolina State University</b> 12/2008 Master of Science in Computer Science, <b>GPA: 3.926</b> <i>Research concentration in texture synthesis, perception, and representation</i>	
	<b>Northern Kentucky University</b> 05/2006 Bachelor of Science in Computer Science and Mathematics, <b>GPA: 3.777</b> <i>Honors List, Magna Cum Laude</i>	
ACADEMIA	<b>College of Mt. St. Joseph</b> 01/2010–present <i>Adjunct Faculty:</i> Computer Information Systems courses Taught databases course concentrating on business applications.	
	<b>Northern Kentucky University</b> 08/2009–present <i>Adjunct Faculty:</i> Computer Science courses Taught introductory computer science and information technology courses including Elementary Programming and PC & Networking Fundamentals.	
	<b>Duke University TIP</b> 06/2007–08/2009 <i>Instructor:</i> Programming for Video Games Designed and taught courses that teach programming and Java or Python through video game development aimed at gifted 6th grade and high school students	
	<b>North Carolina State University</b> 08/2007–05/2009 <i>Research Assistant:</i> Dr. Ben Watson Texture synthesis, representation, and perception; high-resolution imagery <ul style="list-style-type: none"><li>• Investigated and implemented existing synthesis algorithms using <b>Python</b> and <b>C++</b></li><li>• Used visual perception knowledge to identify unique applications for synthesis</li></ul>	
	<b>North Carolina State University</b> 08/2006–05/2007 <i>Teaching Assistant:</i> Applied Web Development Course centered on dynamic, standards-compliant web development (PHP, X/HTML, CSS) and database design/interaction (MySQL)	
PUBLICATIONS	<b>Measuring the Effect of Code Complexity on Static Analysis Results</b> James Walden, Adam Messer, Alex Kuhl. <i>ESSoS</i> . February. 2009. An investigation into the effectiveness of existing static source code analysis tools at correctly identifying known format string vulnerabilities.	
	<b>Rejewski's Catalog</b> Alex Kuhl. <i>Cryptologia</i> . Vol. 31 Issue 4, pages 326–331. 2007. A reconstruction and analysis of the lost catalog Rejewski used as an attack on the German Enigma before WWII.	

PRESENTATIONS	<p><b>Rocket Puck on Ice</b>  Alex Kuhl. <i>Northern Kentucky University Celebration of Research and Creativity</i>. Highland Heights, KY, USA. 04/2006.  A Java GUI program for teaching introductory physics students about kinematic forces in a real-time, intuitive environment.</p> <p><b>Rejewski's Catalog</b>  Alex Kuhl. <i>Mathematical Association of America - Kentucky Section Annual Meeting</i>. Centre College, Danville, KY, USA. 03/2006.</p>												
UNPUBLISHED RESEARCH	<p><b>A Survey of Texture Synthesis and Its Applications</b>  Alex Kuhl and Ben Watson.  An overview of texture synthesis literature, explanation of prevailing methods, and discussion of open problems. Currently being re-worked in preparation for journal submission.</p> <p><b>Introduction to Applied Cryptography</b>  Chris Christensen, Nick Hoffman, Alex Kuhl.  Module intended to introduce graduate computer science students to the fundamentals of Cryptology for use with secure programming.</p>												
HONORS AND AWARDS	<table border="0"> <tbody> <tr> <td><b>Greg Mellen Memorial Cryptology Scholarship</b>, Cryptologia</td> <td style="text-align: right;">2007</td> </tr> <tr> <td><b>College of Engineering Dean's Fellowship</b>, NCSU</td> <td style="text-align: right;">2006-2007</td> </tr> <tr> <td><b>Dean's Scholarship</b>, Northern Kentucky University</td> <td style="text-align: right;">2005-2006</td> </tr> <tr> <td><b>Sehnert-Pugh Scholarship</b>, Math and Comp. Sci. Dept., NKU</td> <td style="text-align: right;">2004-2005</td> </tr> <tr> <td><b>Jeff Greene Scholar</b>, State of Kentucky</td> <td style="text-align: right;">2002</td> </tr> </tbody> </table>	<b>Greg Mellen Memorial Cryptology Scholarship</b> , Cryptologia	2007	<b>College of Engineering Dean's Fellowship</b> , NCSU	2006-2007	<b>Dean's Scholarship</b> , Northern Kentucky University	2005-2006	<b>Sehnert-Pugh Scholarship</b> , Math and Comp. Sci. Dept., NKU	2004-2005	<b>Jeff Greene Scholar</b> , State of Kentucky	2002		
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