

# Kyle R. Taylor

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Education	<b>Graduate Student in Electrical Engineering</b> Second year PhD Student with a focus on Machine Learning University of Iowa	2010-Present
	<b>B.S. Electrical Engineering</b> Minor in Computer Science University of Iowa	2005-2009
Course Highlights	High Performance Computer Architecture Knowledge Discovery Graph Algorithms & Combinatorial Optimization C.S. Topics: OpenMP and CUDA Operating Systems	
Research Projects	<b>AudioGene: Prioritization of Genes for Screening</b> AudioGene is a tool for doctors to prioritize genes to be screened in patients with a certain form of genetic hearing loss. Uses a supervised machine learning approach for prioritization. Created a website for AudioGene that interfaced with our cluster of computers to perform the analysis.  <b>IRV: An iPad app for Ophthalmologist</b> Developed an iPad app to allow Ophthalmologist to view high resolution retinal images and scanned patient information. Used open source software to reverse engineer the iOS mobile device framework in order to create a Mac app that syncs encrypted patient data to an iPad, bypassing iTunes. Currently being used on a daily basis by doctors, residents and fellows at the University of Iowa Hospitals and Clinics.	
Other Experiences	<b>Summer Intern</b> Lyrical Labs Implemented state of the art object recognition algorithm to identify objects in images. Modified OpenCV in order to extend functionality of their support vector machine implementation to handle custom kernels. Designed the architecture from the ground up.  <b>Research Assistant</b> University of Southern California Worked in the Human Interactions Lab Project involved working on methods to synchronize human speech with their humanoid robot's mechanical lips. Modified drivers for their Open Source software project Player/Stage to make them better interface with the lip movement	Summer 2011           Summer 2008
Awards	Best undergrad poster in Center for the Research Open House 1st Place in State Farm programming contest 2nd Place in the Iowa ACM A.I. Competition	2009 2008 2007