

# SRI KANKANAHALLI

## PUBLICATIONS

**Kankanhalli, S.**, Burlina, M., Wolfson, Y., Freund, D.E., & Bressler, N.M. (2013). Automated classification of severity of age-related macular degeneration from fundus photographs. *Investigative ophthalmology & visual science*, 54(3), 1789-1796.

## EXPERIENCE

**2016**      **AICURE**  
COMPUTER VISION RESEARCH INTERN

Worked on pill detection and classification on a large dataset of low-resolution phone images, including the “**one-shot learning**” problem (learning an object class from very few examples), using **convolutional neural networks** (specifically, Siamese nets to learn object embeddings).

**2015**      **AMAZON**  
SOFTWARE DEVELOPMENT ENGINEER INTERN

Created new algorithms for **product recommendations**. Integrated sophisticated low-latency recommendation strategies into **key high-traffic sections** of the retail website.

**2012-2014**      **JOHNS HOPKINS APPLIED PHYSICS LAB**  
TECHNICAL AIDE

Developed and implemented an algorithm to automatically detect and diagnose **age related macular degeneration** (the #1 leading cause of blindness in the Western world for people over 50) from retinal images. Produced results in excess of **95% accuracy** on a large and diverse dataset of images. I created a significant part of the algorithmic design, and did the large majority of the implementation (in C++ using OpenCV).

## SELECTED PROJECTS

**2014-PRESENT**      **STEEL ASSAULT**  
LEAD PROGRAMMER, DESIGNER, COMPOSER

A **science-fiction platformer videogame** for PC, taking place in a vibrant post-apocalyptic America. Raised over \$8,000 in funding on Kickstarter. More info: <http://steelassault.com>

## EDUCATION

**UNIVERSITY OF MARYLAND, COLLEGE PARK**

- Expected graduation of **May 2017**
- **Combined B.S./M.S.** in Computer Science
- **Master’s research:** automatically learning end-to-end compression pipelines using deep neural nets
- Undergrad GPA of **3.69**

## SKILLS / TECHNOLOGIES

<b>C/C++</b>	<b>Java</b>	<b>HTML/Javascript</b>
<b>Python</b>	<b>C#</b>	<b>Matlab</b>

Knowledgeable in machine learning and image processing. Have worked with libraries such as OpenCV, Caffe, Theano, and Keras.

## AWARDS / HONORS

**BANNEKER KEY SCHOLAR**

- Most prestigious merit scholarship for UMD students

**OUTSTANDING GRADUATE TA**

- Nominated spring 2016 (taught a course in discrete mathematics)

## CONTACT ME

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