

SRI KANKANAHALLI

PUBLICATIONS

Kankanahalli, 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 images, as well as **“one-shot learning”** (learning an object class from very few examples), using **deep convolutional neural networks** (specifically, Siamese nets). Currently working on a publication.

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
- Undergrad GPA of 3.69

SKILLS / TECHNOLOGIES

- C / C++
- Java
- C#
- jQuery
- Matlab
- CSS3
- Python
- JavaScript

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

AWARDS / HONORS

BANNEKER KEY SCHOLAR

- Most prestigious merit scholarship awarded to UMD students

OUTSTANDING GRADUATE TA

- Nominated spring 2016

CONTACT ME

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