

# 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.

**Kankanahalli, S.** (2017). End-to-End Optimized Speech Coding with Deep Neural Networks. *arXiv preprint arXiv:1710.09064*. To be presented at ICASSP 2018.

## EXPERIENCE

2017-PRESENT **BLOOMBERG LP**  
SOFTWARE ENGINEER

Implemented controls for MiFID II. Currently in training.

2016 **AICURE**  
COMPUTER VISION RESEARCH INTERN

Worked on detection and classification on a large dataset of low-resolution images (including "one-shot learning"), using **convolutional neural networks** (specifically, Siamese nets).

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 a medical imaging algorithm to accurately detect and diagnose **age-related macular degeneration** from retinal images, using C++ and 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

- Graduated in **August 2017**
- **Combined B.S./M.S.** in Computer Science
- **Master's research:** using deep neural networks to learn compression pipelines from data, end-to-end
- Undergrad GPA of **3.69**

## SKILLS / TECHNOLOGIES

C/C++	Java	HTML/Javascript
Python	C#	Matlab

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

E-MAIL [sriharik@terpmail.umd.edu](mailto:sriharik@terpmail.umd.edu)

PHONE (443)-472-1354

ADDRESS 6321 Dewey Drive, Columbia, MD 21044

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