

Arden Chew

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Education

Johns Hopkins University (*Graduating 2019*)

Biomedical Engineering, Computational Bioengineering—B.S.
Computer Science and Computer Integrated Surgery—Double Minor
Major GPA: 3.62 (Dean's List 2016, 2017)

Experience

Allen Institute for Brain Science

Incoming Deep Learning Intern (Summer 2018)

Using deep learning (Tensorflow) to recognize EM connectomes,
medical image processing via opencv and sklearn

Accuo, Image Guided Needle Placements

Co-founder (2016-Present)

Developed patented image reconstruction algorithms, integrated
Arduino software, and led product development and clinical testing
for novel ultrasound needle guidance medical device

Center for Sensorimotor Neural Engineering

Machine Learning Intern (Summer 2017)

Optimized cochlear implant stimulus parameters using particle
swarm machine learning optimization (Pyswarm)

Johns Hopkins Neuroengineering & Biomedical Instrumentation Lab

Software Development Assistant (2017-2018)

Incorporated a supervised deep learning network (Keras) to a virtual
reality application for prosthetic users to train fluid upper limb
prosthetic movement by completing virtual tasks

Johns Hopkins Center for Imaging Sciences

Medical Imaging Research Assistant (2016-2017)

Developed 3D landmarking software to correct generated surface
mesh topology of cerebral features

Projects & Publications

LastPiece (2017-2018)

[Android app](#) – Board game that includes an
reinforcement machine learning assisted computer
player and multi-threading

Sort2Save (2018-present)

Building convolutional neural net (PyTorch) to
recognize and sort water bottles from garbage

VentureWell (2017)

Presentation and Patent Pending – “Accuo: Image
Guided Needle Placements”

American Society for Bone and Mineral Research (2015)

*Published Abstract, Presentation and Poster (Second
Author) – “Cross-Species Analysis in Zebrafish and Rat
Reveals Conserved Dynamics in Genes Associated
with Human BMD and Bone Disorders”*

Activities

Teaching Assistant

Biomedical Engineering Programming in Python,
Matlab, and R
Biomedical Engineering Molecules and Cells

NCAA Varsity Soccer Player

2x Centennial Conference Academic Honor Roll
Award Winner
Academic All-Region
Chi Alpha Sigma National College Athlete Honor
Society

Hopkins Biomedical Engineering Society

Volunteer at Johns Hopkins Brain Simulation Lab