Alexander Feldman

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EDUCATION

Brandeis University | Waltham, MA
BS in Computer Science
Expected May 2019
Minors in Gender Studies & Economics
GPA: 3.57

COURSEWORK

COMPLETED

Data Structures and Algorithms
Operating Systems
Theory of Computation
Artificial Intelligence
Structure & Interpretation. of Comp. Progs.
Computer Supported Collaboration
Statistics for Economic Analysis
Linear Algebra

CURRENTLY TAKING

Probability
Programming Language Theory
Discrete Structures

PROGRAMMING EXPERIENCE

LANGUAGES

Python | MATLAB | Java

PACKAGES

OpenCV | NumPy | TensorFlow | Stat. and
Machine Learning Toolbox | Computer
Vision Toolbox

ACTIVITIES

Squash | Photography | Cooking

EXPERIENCE

Chairperson | Nov. 2015 – Present
Student Union Allocations Board | Brandeis University
A-Board decides on all funding for student clubs.
• For three semesters, I headed an eleven-member team with full control of a $1.7M budget.
• Following mismanagement of funds, I implemented a restructuring effort.
• I was awarded the Kappa Eta Sigma service award for the turnaround.

Research Assistant | Nov. 2015 – Present
National Initiative on Gender, Culture and Leadership in Medicine | Brandeis University
This initiative studies academic health centers by surveying faculty and students.
• I assisted in the publication of scholarly articles. I reviewed previous literature, designed figures and tables, and edited sections of manuscripts.
• I created reports using Marketsight, SAS, and STATA. Error free results were essential.

Computer Vision Researcher | May – Jun. 2017
College of Computing and Informatics | University of North Carolina, Charlotte
Participant in the NSF Research Experiences for Undergraduates program.
• In the Video and Image Analysis Lab, I researched fingerprint interoperability.
• Using local texture descriptors, we improved on the state of the art.
• We published our results at the ICCV 2017 workshop on cross-domain human identification. I also presented a poster detailing the research.

PROJECTS

Exam Coversheet Reader | Jul. 2017
Manually entering grades into a database is time consuming for faculty who teach a large number of students. Extracting information from a scan of papers prior to returning them to students is a more efficient process. This project, implemented in Python with OpenCV, does just that.

Ball Tracking for Squash | Jul. 2016
Squash is a fast-paced racquet sport played indoors. I wrote a computer vision program in MATLAB which follows the action in a rally. It detects, tracks, and draws the ball in 2D while handling occlusion from players and racquets.

AWARDS

Outstanding Poster - Second Prize | Jul. 2017
UNC Charlotte, Computer Science REU
My research on fingerprint interoperability won second place at the poster symposium.

Kappa Eta Sigma Service Award | May 2017
Brandeis University, Office of the Dean of Students
This prize is awarded to a sophomore who by thoughtfulness and kindness has contributed to the well-being of his fellow students.