

# Alexander Feldman

☎ (201) 294-2787

✉ felday@brandeis.edu

🌐 felday.info 📶 aallxx

## 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 – Jul. 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.
- I presented a poster detailing the research which was awarded second place at the REU-wide symposium.

## 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.