

# Sotiris Karagounis

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## EDUCATION

**Brown University**, Providence, Rhode Island — *Computer Science*

2016 - Present

Bachelor of Science Candidate, Major in Computer Science,  
Expected Graduation Date: 2020

## EXPERIENCE

**Teaching Assistant**, Brown University

2017 - Present

TA for CS15: Introduction To Object-Oriented Programming (Approx. 400 students)

**Responsibilities include:**

- Grading students' projects and assignments
- Helping students in TA hours: 4 hours a week
- Holding weekly labs and section: 3 hours a week
- Revising previous lectures and class materials

**Leadership Role**, Students for the Exploration and Development of Space (SEDS) Brown Chapter

2017 - Present

Student organization for space enthusiasts. (Approx. 60 members)

**Responsibilities include:**

- Promoting the chapter around campus
- Organizing events and club excursions pertaining to space
- Maintenance of the student website

## SELECT COURSEWORK PROJECTS

**Tetris:** Implemented popular arcade game in Java, heavy use of inheritance and design patterns.

**Pacman:** Fully functional Pacman that uses BFS as simple game AI for the ghosts.

**Seamcarve:** Using a dynamic programming algorithm, created software that removes non important pixels with the goal of resizing the image itself.

**Graph:** Implemented Dijkstra's algorithm in a graphical environment that allows users to find the shortest distance between two points in a graph.

## COMPUTER SCIENCE ESSAYS

**IB Extended Essay:** *Under what condition is it possible to completely match two sets using simple bipartite graphs?*

- Essay on graph theory, received an A.

**IB Mathematics Internal Assessment:** *Can the correctness of RSA Encryption be proven?*

## RELEVANT COURSES

**CSCI 0150:** Introduction to

Object-Oriented Programming and Computer Science

**CSCI 0160:** Introduction to Algorithms and Data Structures

**CSCI 0220:** Introduction to Discrete Structures and Probability

**CSCI 0330:** Introduction to Computer Systems

**APMA 1655:** Statistical Inference I

**MATH 0180:** Intermediate Calculus

## SKILLS

Programming in:

Java *Proficient*

Python *Proficient*

C *Familiar with*

Experience in UNIX/LINUX environment.

## LANGUAGES

Greek (Fluent),

Ancient Greek (Translation)

Spanish (Beginner)

## INTERESTS

I am interested in astronomy / astrophysics and specifically how it correlates with data science. Other interests include: cooking, on-campus LGBT events, science fiction novels.