

## Education

**Northeastern University**, Boston, MA, USA

(09/2015 - 06/2020)

PhD Student in Computer Science

GPA: **3.8/4**

**Advisor:** Prof. Seth Cooper

**Thesis:** *"Designing Effective Task Variety and Collaboration Mechanisms to Motivate Engagement in Crowdsourced Image Labeling"*

**Selected Courses:** ➔ Advanced Algorithms, Machine Learning, Human Computer Interaction

**Selected Projects:** ➔ Design of a web application for homebuyers in Boston (collaboration with the Boston Mayor's Office and the Boston Home Center)

**National Technical University of Athens**, Athens, Greece

(09/2009 - 06/2015)

Degree in Electrical and Computer Engineering, (5-year study program, MSc equivalent)

GPA: **7.2/10**

**Thesis:** *"Study, Extraction and Utilization of Relational Models among Virtual Entities in the Social Internet of Things"*

**Selected Courses:** ➔ Artificial Intelligence, Human-Computer Interaction, Computer Graphics

**Selected Projects:** ➔ Implementation of a 2D Video Game using Unity Game Engine

➔ Implementation of an online marketplace using Magento and OpenERP

## Research Experience

**Northeastern University**, Boston, MA USA

Research Assistant

(09/2015 - Present)

**Advisor:** Prof. Seth Cooper

➔ Research interests include games, human computer interaction and crowdsourcing.

➔ Currently working on Cartoscope, an open-source research project on crowdsourcing for disaster response.

➔ Focus of research project includes the influence of various factors, such as task variety, interface design and collaboration/competition in user experience and engagement.

**Microsoft Research**, New York City, NY USA

Research Intern, Computational Social Science Group

(05/2019 - 08/2019)

**Mentors:** Jake Hofman & Dan Goldstein

➔ Worked on the Perspectives Engine project about generating helpful analogies for unfamiliar numbers. Part of my work has been deployed to Microsoft PowerPoint.

**Microsoft Research**, New York City, NY USA

Research Intern, Computational Social Science Group

(05/2018 - 08/2018)

**Mentors:** Jake Hofman & Dan Goldstein

➔ Designed and implemented a crowdsourcing platform and database for generating perspectives for helping people understand unfamiliar numbers encountered in news and other sources.

## Publications

📖 **Sofia Eleni Spatharioti**, Sara Wylie and Seth Cooper, (2019) *Using Q-Learning for Sequencing Level Difficulties in a Citizen Science Matching Game*, In: Extended Abstracts of the 2019 Annual Symposium on Computer-Human Interaction in Play, Barcelona, Spain








📖 **Sofia Eleni Spatharioti**, Sara Wylie and Seth Cooper, (2018) *Does Flight Path Context Matter? Impact on Worker Performance in Crowdsourced Aerial Imagery Analysis*, In: Proceedings of the ISCRAM 2018 Conference, Rochester, NY, USA

📖 **Sofia Eleni Spatharioti**, Rebecca Govoni, Jennifer S. Carrera, Sara Wylie and Seth Cooper, (2017) *A Required Work Payment Scheme for Crowdsourced Disaster Response: Worker Performance and Motivations*, In: Proceedings of the ISCRAM 2017 Conference, Albi, France




📖 **Sofia Eleni Spatharioti** and Seth Cooper, (2017) *On Variety, Complexity, and Engagement in Crowdsourced Disaster Response Tasks*, In: Proceedings of the ISCRAM 2017 Conference, Albi, France

🏆 **Best Student Paper Award Nomination**

## Achievements & Awards

-  Elected as the student representative in the PhD Admissions Committee (2019).
-  Received the KCCS Community Service Award for PhD students (2019).
-  Presented Tile-o-Scope AR at the Citizen Science Association Conference (2019).
-  Nominated for Northeastern University's Outstanding Graduate Student Award in the category: Research: Life Sciences, Physical Sciences and Engineering (2018).
-  Presented Cartosco.pe at a citizen science exhibit at the Cleveland Museum of Natural History (2017).
-  Raised more than 1,000 Euros during a fund raising campaign for "Smile of the Child" non-profit voluntary organization as a member of the High School Student Council (2008).
-  Qualified in the national "Thales" and "Euclid" mathematics competitions (2006).

## Presentations

-  **Sofia Eleni Spatharioti**, Sara Wylie and Seth Cooper. (2018) Identifying and Assessing Points of Interest through Crowdsourced Image Analysis. In: Proceedings of the ISCRAM 2018 Conference, Rochester, NY.
-  **Sofia Eleni Spatharioti**, Rebecca Govoni, Jennifer S. Carrera, Sara Wylie and Seth Cooper. (2017) Cartoscope: A New Platform for Citizen Science and Disaster Response. Citizen Science Association Conference, St. Paul, MN.
-  **Sofia Eleni Spatharioti**, Rebecca Govoni, Jennifer Carrera, Sara Wylie and Seth Cooper. (2016) Exploring Required Work and Progress Feedback in Crowdsourced Mapping. AAAI Conference on Human Computation and Crowdsourcing, Austin, TX.

## Work Experience

### Northeastern University, Boston, MA USA

Teaching Assistant

(Fall 2019)

**Instructor:** Prof. Magy Seif El-Nasr

Served as a Teaching Assistant for CS7340 (Theory and Methods in Human Computer Interaction), a PhD level core course. Responsible for giving lectures and leading in-class activities, as well as mentoring students towards reading scientific papers, giving presentations about various HCI concepts, and preparing HCI reports based on final projects.

### Velti, Athens Greece

Junior Software Engineer

(10/2014 - 03/2015)

Part of the company's Innovation Department, responsible for research on new technologies. Worked on *OPENi*, a European Union ICT Project, which is an open-source, web-based framework for integrating applications with cloud-based services and personal Cloudlets. Responsible for creating an Authentication Server, as well as a fully functional web user interface for *OPENi*.

## Technical Skills

### Languages:

English: Fluent (CPE)

French: Good (Sorbonne C1)

Greek: Native speaker

### Programming Skills:

Python (Experienced)

Javascript (Experienced)





R, MATLAB (Experienced)

CSS,HTML5 (Experienced)

AngularJS (Experienced)

C#, Unity (Experienced)

## Interests & Misc.

-  Reviewer for FDG 2017, CitSci 2017, ISCRAM 2018 and CHI PLAY 2019.
-  Organizer of Northeastern University's Khoury PhD Women Group and Khoury PhD Social Hour.
-  Reviewer for Origin, a student-led Tech Hub for entrepreneurship at Northeastern University.
-  Composer and performer for a music band, performed at various music halls.