# SARAH LUCIONI

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## EDUCATION

**HARVARD COLLEGE** **CAMBRIDGE, MA**
JOINT CONCENTRATION IN COMPUTER SCIENCE & STATISTICS *AUGUST 2017 - PRESENT*

- GPA: 3.91/4.00; Term Honor: John Harvard Scholar; Harvard College Scholar; Expected Graduation Date: May 2021
- *Relevant Coursework*: Stat 195 (Statistical Machine Learning), CS 109a/b (Intro and Advanced Data Science), 6.036 (Intro to Machine Learning, MIT), Stat 171 (Intro to Stochastic Processes), CS 124 (Data Structures and Algorithms), CS 61 (Systems)

**BAINBRIDGE HIGH SCHOOL** **BAINBRIDGE ISLAND, WA**
*SEPTEMBER 2013 – JUNE 2017*

- GPA: 4.00/4.00
- Valedictorian, Faculty Honors, National AP Scholar, College Board National Hispanic Scholar Award (NHRP), Honor Roll

## EMPLOYMENT & OTHER RELEVANT TRAINING

**GOOGLE** **SAN FRANCISCO, CA**
SOFTWARE ENGINEERING INTERN *MAY 2020 – AUGUST 2020*

- Worked on Google Maps iOS Core App Search + Explore team on the Placesheet which displays place information to the user
- Increased the flexibility and prominence of gas prices on the Placesheet and in Categorical Search: made the gas prices module available internationally using Objective-C and Java on the Xcode IDE
  - Implemented a UI module and place annotation to leverage the international gas prices RPC on the Maps backend
- Helped create a flexible alert framework in a cross-platform effort: worked with PM/UX/ENG and managed the alert on Placesheet
  - High priority project launched for COVID-19 alerts surrounding testing centers
- Redesigned a logging scheme for the Placesheet header to increase understandability and readability among engineers
- Wrote a design doc for each project to explore different designs and weigh possible tradeoffs prior to implementation

**GOOGLE** **MOUNTAIN VIEW, CA**
ENGNEERING PRACTICUM INTERN *MAY 2019 – AUGUST 2019*

- Worked on Google Photos iOS Printing Squad to increase the discoverability and awareness of photo books
  - Implemented a service to connect the UI entry point and future projects to the photo book creation RPC leveraging the Photos machine intelligence backend using Objective-C on the Xcode IDE
- Created two new landscape views for printing, and implemented a double-tap to zoom out feature for photo book page editing
- Learned and used Mercurial for version control as well as the internal testing framework, IDE, and code search and review tools

**MICROSOFT** **SEATTLE, WA**
NEW TECHNOLOGIST INTERN *JUNE 2018 – AUGUST 2018*

- Received hands-on training from senior staff in the Microsoft Office 365 team on iOS development and design thinking
- Designed, planned, and created DayDream, a productive procrastination app that connects students and their ideas through an easy-to-use idea sharing platform while embracing positivity to improve inclusion, creativity, and innovation
  - Used PowerPoint for pitches, Figma to create wireframes, and Swift on the Xcode IDE to develop DayDream
  - Team selected to present and pitch DayDream to Microsoft executives

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)** **CAMBRIDGE, MA**
MINORITY INTRODUCTION TO ENGINEERING AND SCIENCE (MITES) *JUNE 2016 – JULY 2016*

- Awarded the "2016 Edna and Leon Trilling Award" for "best overall academic performance"
- Designed, built, and programmed a motorized alarm clock using a RaspberryPi and Python; awarded Best Electronics Final Project

OTHER EXPERIENCE: Electronics teaching assistant at MIT's SEED Academy (Spring & Fall 2018)

## PROJECTS, LEADERSHIP, & ACTIVITIES

**CS 109a FINAL PROJECT: EXPLORING THE COLD START PROBLEM VIA SPOTIFY** *DECEMBER 2019*

- Researched and analyzed the cold start problem using Spotify songs dataset and the Spotify API to create four k-Nearest Neighbors models and two k-Means Clustering models to predict a playlist given minimal user information

**CS 105 FINAL PROJECT: VOCAL BIAS IN VOICE RECOGNITION TECHNOLOGIES** *DECEMBER 2018*

- Researched and analyzed vocal bias via accents in voice recognition technologies through edit distance and accuracy rate using George Mason University's Speech Accent Archive, Python, IBM, Amazon, Google, and Microsoft speech to text technologies

RELEVANT PROJECTS: CS 50 Final Project - NotifiKeytion, Introduced MIT Food Computers to Bainbridge High School

RELEVANT LEADERSHIP & ACTIVITIES: CS Peer Concentration Advisor, CS 105 (Privacy and Technology) Teaching Fellow, Research Assistant, Harvard Women in Computer Science (WiCS) Member, Harvard Pops Orchestra Violinist and Board Member

## ADDITIONAL INFORMATION

**TECHNICAL TRAINING:** Objective-C, Python, Swift, R, C, SQL, Java, OCaml, JavaScript, HTML/CSS, Xcode, Git, Mercurial
**INTERESTS:** Seattle Seahawks, Fantasy Football, Painting, Baking, Music, Hiking, Reading, Games, Origami, Entrepreneurship