

# Marisa Papagelis

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## EDUCATION

### Wellesley College

Wellesley, MA

B.A. in Economics; B.A. in Data Science – Data Engineering concentration | GPA: 3.66/4.0

Sept 2018 – May 2022

**Honors:** Camellia Student Leadership Award Nomination (2020, 2021), CRLA International Peer Educator Training Program Coach, Level I (2020), CSCAA Scholar All-America Academic Team (2018, 2019, 2020, 2021)

**Leadership:** Wellesley Data Collective Fellow, Pforzheimer Learning & Teaching Center Academic Success Coach, Athlete Mentor, The Wellesley News Health & Wellness Lead Editor, HIVE Diversity Campus Ambassador, Swim America Coach, Wellesley Child Study Center

**Collegiate Athletics:** Wellesley College Varsity Swimming – Events & Celebrations Chair, Program Record Holder

**Relevant Coursework:** Databases, Data/Text Mining, Data Structures, Computer Programming, Applied Data Analysis & Statistical Inference, Linear Algebra, Strategy & Information, Econometrics, Microeconomic Analysis, Macroeconomic Analysis, Probability & Statistical Methods

### Massachusetts Institute of Technology (MIT)

Cambridge, MA

Cross-Registered Student, Undergraduate Research, MIT Sloan School of Management | GPA: 5.0/5.0

Sept 2018 – May 2022

**Relevant Coursework:** Artificial Intelligence, Digital Technology and the Law, Competitive Strategy

## PROFESSIONAL EXPERIENCE

### Harvard Medical School and Massachusetts General Hospital (MGH)

Cambridge, MA

Research Intern

January 2021 – Present

- Researcher at Dr. Mohammad Jalali's Lab to develop and utilize simulation models and data science methods to understand complex public health issues and to inform decision and policy making through research projects focusing on opioid and additional relevant health topics.
- Co-author and submit publications and research proposals for grants from the FDA, CDC, NIH, and additional lab research funders.

### MIT Sloan School of Management

Cambridge, MA

Research Assistant

June 2020 – Present

- Co-researcher on a survey analysis study led by Dr. David Keith and Dr. Joanna Moody on finding the option value of owning a car.
- Build models using discrete choice modeling and regression and presented findings to the MITEI Mobility Systems Center Research Team.
- Co-authored economic research paper currently under final review for publication by Nature Sustainability.

### Tech Goes Home (TGH)

Boston, MA

Data Analyst Intern

Summer 2020

- Conducted 20+ interviews, oversaw 200+ volunteers, considered data collection/usage, and worked on improvements to the system.
- Analyzed company trends in 23,000 participants primary languages against key variables of interest using Salesforce and R.
- Presented findings to CEO's and entire TGH Team; compiled results for company board meetings and future use.

### MIT Governance Lab

Cambridge, MA

Research Assistant

Fall 2019

- Collaborated with Dr. Hidalgo to test an in-house built machine learning algorithm that measures the transparency of local U.S. governments.
- Collected and sorted data and conducted qualitative and logistical work to improve interpersonal skills such as interviewing local government officials, interacting with media outlets, conducting background research, and working to improve overall design.

## SKILLS

- Object-oriented programming: Python, Java
- Web development: Flask, JavaScript, HTML/CSS
- Additional: R, SQL, Markdown, Linux/Unix, SSH
- Survey analysis, collaborative research, communication
- Discrete choice modeling, regression, data/text mining
- Data structures, databases, ML, AI, basic algorithms

## PROJECTS

### DoorToDoor – Professional Recruiting and Career Development Web Application

Databases and Web Interfaces Project

Frontend and Backend Developer

Spring 2021

- Designed a web application and database for Wellesley College students and professional company representatives construct customized profiles and search, network, and connect with one another using Flask, Ajax, Python, SQL, HTML/CSS.
- Focused on security and privacy implementation including secure user authentication (sign-up/login/out), sessions, cookies, and encryption.

### Predicting Media Partisanship in the 2020 U.S. Presidential Election

Data Mining and Machine Learning Project

Data Engineer

Fall 2020

- Built a supervised classification system to investigate the most frequently discussed political topics during the months leading up to the 2020 election by biased partisan news sources on Facebook using data and text mining methods, NLTK, Selenium, BeautifulSoup, and Python.
- Trained classifier to accurately predict the partisanship (left, right, center) of any given news post on Facebook.

### Yelp Reviews Web Application

MIT Sloan Undergraduate Research

Frontend and Backend Developer, UI/UX Researcher

Spring 2020 – Fall 2020

- Developed and designed a web application to extract and parse consumer reviews using HTML/CSS, Flask, and Python.
- Synthesize consumer review analyses with NLP to build user profiles to showcase their expertise and promote contribution.

**Personal Interests:** Art, kayaking, watching the sunset, traveling with family, golf, sports analytics

