

# ALIYA MERALI

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## EXPERIENCE

### Director of Learning & Access

Coalition for Queens

*Sept 2014 - June 2016*

- Led the design and implementation of Access Code: a free 9-month immersive tech training program in mobile app development for adults from diverse and low income backgrounds
- Increased graduate salaries from \$18,000 to \$85,000 on average with a 70% job placement rate (three months post-program)
- Built and directly managed a full-time team of four to execute program components to serve 64 participants
- Conducted program evaluation and executed planning and design for modified future iterations of Access Code
- Oversaw the development and execution of two technical curricula in Android and iOS app development
- Recruited and managed a community of 100+ volunteers to participate in curriculum development, content delivery, and mentorship
- Recruited 1200+ program applicants through community partnership development and maintenance

### Data Science Graduate Intern

NYC Police Department (NYPD)

*Sept 2013 - Aug 2014*

- Constructed a predictive model for NYPD crime calls based on 911, 311, weather, and census data to provide data driven recommendations for police resource allocation
- Utilized ensemble machine learning methods and HPC implementation for construction of allocation model
- Managed relationship between the NYU CUSP engineering team and NYPD to meet project goals and timeline

### Researcher & Program Leader

Science Education

Princeton Plasma Physics Lab

*June 2011 - Aug 2013*

- Managed five different physics and science education programs for K-12 students, teachers, and undergraduates
- Mentored 25 gifted high school and undergraduate students
- Directed the Young Women's Conference, a regional event highlighting the achievements of women in science serving 350+ students, featuring 30+ female scientists, aiming to increase the percentage of attendees interested in pursuing scientific careers following the conference
- Evaluated efficacy of programs through survey development and data collection and analysis; developed recommendations for increased program impact
- Presented research findings annually at the American Physical Society Division of Plasma Physics Conference

## EDUCATION

### Master of Science in Applied Urban Science and Informatics

New York University: Center for Urban Science and Progress

GPA: 3.928/4.0, Valedictorian

*2013 - 2014*

### Bachelor of Science in Physics, Minor in Arabic Language

The College of New Jersey

GPA 3.896/4.0, Magna Cum Laude

*2007 - 2011*

## TECHNICAL SKILLS

- SQL
- R
- Python
- HTML & CSS
- ArcGIS