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(F) GITHUB

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Matthew Moocarme

A motivated, skilled PhD physicist with comprehensive, in-depth programming experience, strong problem-solving skills and excellent communication.

EXPERIENCE -----

Graduate Student Researcher 2010 - present

- The Graduate Center of CUNY Developed, implemented, and tested new and novel theories that end in peer-reviweed publications.
 - Built analytical models and tools with mathematical software and scripting languages.
 - Designed experiments to test hypotheses quickly and efficiently to gain intuition and results.

Queens College of CUNY Adjunct Lecturer 2011 - present

- Overhauled and taught the "Physics for Computer Scientists II" lab, that incorporated Python and Matlab to develop students understanding of physics.
- Emphasis placed on understanding causal relationships and communicating results via visualizing data.

----- EDUCATION

Expected Graduation: September 2016

THE GRADUATE CENTER **OF CUNY**

PhD Physics in progress

THE GRADUATE CENTER

M.Phil. Physics in progress

QUEENS COLLEGE

OF CUNY

OF CUNY

M.S. Physics in progress

CALIFORNIA STATE UNIV., B.S. Physics, 2010

LONG BEACH

GPA: 3.85

PUBLICATIONS

3 first author publications

DOI: 10.1364/OE.23.028471, DOI: 10.1364/OME.4.002355,

DOI: 10.1021/nl4039357,

1 in progress

Other publications

DOI: 10.1364/OPTICA.2.000447.

DOI: 10.1364/OE.20.019214.

DOI: 10.1364/OE.24.010402.

1 in progress

INDEPENDENT PROJECTS

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Has Vision Zero Worked? - public.tableau.com/profile/matthew.moocarme/

An analysis into whether Bill de Blasio's campaign to reduce the number of traffic-related injuries in is NYC is successful, and data-driven recommedations for increasing its effectiveness.

Does the Concentration of Airborne Lead Affect the Number of Complaints due to Lead in NYC?

- rpubs.com/moocarme/Pb-R-Analysis

An investigation into the correlation between airborne concentration of lead and number of NYC 311 complaints.

Why does all country music sound the same? - github.com/moocarme/RiffChruncher

Data mining song data of country music and comparing data to other genres.

Coursera Data Science Specialization - https://www.linkedin.com/in/matthew-moocarme-78a053b6

PROFESSIONAL SKILLS

