

# ERIN QUIGLEY

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<https://archinect.com/erin.quigley>

Master of Architecture graduate from the University of Pennsylvania. Mathematician with 7 years professional experience in the STEM fields.  
Experience in the areas of Math, Physics, Engineering, Computer Programming, and Design.

## EDUCATION

### Master of Architecture, May 2020

University of Pennsylvania

Philadelphia, PA

*Thesis: Carbon Capture in the Urban Landscape*

### Bachelor of Science May 2013

Catholic University of America

Washington, DC

Major: Mathematics

Minors: Physics; Art Studio

### Study Abroad Spring 2012

Arcadia Program

University College Cork, Ireland

## HONORS

Magna Cum Laude

Phi Eta Sigma Honors Society

Distinguished Deans List

CUA Fine Lines: Art Competition (1<sup>st</sup>)

## SOFTWARE

Rhinoceros 3D

Adobe Creative Suite

Autodesk Revit software for BIM

AutoCAD

## RELEVANT COURSEWORK

Energy, Waste, & the Environment

Embodied Carbon & Architecture

Ecological Architecture

Matter and Energy

Structure of Materials

Material Formations

Structures I & II

Environmental Systems I & II

Design and Analysis of Algorithms

### Georgia Tech Professional

#### Education Courses:

Radar Cross Section Reduction

Radar Signal Processing

### MathWorks MATLAB Courses:

Building Interactive Applications

MATLAB Fundamentals

Programming Techniques

Data Processing and Visualization

## PROGRAMMING

MATLAB

Python

## PROFESSIONAL EXPERIENCE

Mathematician, GS-13-01, full time (40 hrs/wk)

SEP 2016 - Present

Naval Surface Warfare Center, Philadelphia Division

Philadelphia, PA

- Machinery Research and Silencing Division
- Provides mathematics / analytical expertise to government entities and industry as an active part of the Navy's S&T and R&D community
- Prepares / delivers / provides input to technical and program products such as R&D roadmaps/plans, white papers, proposals, MOUs, MOAs, SOWs, POA&Ms, Cost Estimates, ITMPs, project quads, risk assessments, presentations, technical memos and reports by agreed upon deadlines.
- Routinely participates in unprecedented testing, analysis and evaluation of state-of-the-art technologies
- Tracks contractor progress and deliverables to prevent cost overruns and schedule slippage
- Designated Defense Acquisition Workforce Improvement Act (DAWIA) Level 1 certification

Scientist, ND-III, full time (40 hrs/wk)

SEP 2014 - SEP 2016

Naval Surface Warfare Center Carderock Division, West Bethesda, MD

Junior Engineer

AUG 2013 - SEP 2014

Advanced Technology and Research Corporation

- Radio Frequency (RF) Technology Branch
- Performed Motion Measurement testing and analysis
- Participated in full scale Radar Cross Section (RCS) signature testing
- Studied hydrodynamics to understand boat motion
- Utilized Buoy weather data for test analysis
- Analyzed spectral wave data from NOAA National Data Buoy Center
- Designed unique analysis products employing Google Earth capabilities
- Generated advanced analysis tools in MATLAB
- Presented analysis results in support of an International Exchange Agreement
- Incorporated Microsoft Excel in MATLAB coding for data organization

Intern/Researcher, full time (40 hrs/wk)

MAY 2013 - AUG 2013

NASA GSFC Space Weather Research Center

Greenbelt, MD

- Trained prospective Space Weather Forecasters using a program I co-created in the CUA Space Weather course
- Presented lectures on Solar Physics
- Formulated and graded quizzes to track the progress of trainees
- Researched the correlation between EUVI from the STEREO satellites and the X-Ray Data from the GOES satellites in order to analyze solar flares occurring beyond the limb of the sun
- Developed IDL tools to analyze EUVI and X-ray data

Recruiter

OCT 2012 - MAY 2013

Electrical Engineering and Computer Science Department

Catholic University of America; Washington, DC

- Organized and kept track of the status concerning student inquiries
- Generated precise mailing lists using Microsoft Office
- Personalized informational letters formulated by the Chair of the Department
- Communicated engineering career opportunities to prospective students
- Attended open house events and interacted regularly with interested students about the Department of Electrical Engineering and Computer Science