

Terence M. Conlon
terence.conlon@columbia.edu
(216) 308-4723 | [Personal Website](#)

Current Address

617 West 115th Street, Apartment 51
New York, NY 10025

EDUCATION

Columbia University – New York, NY Cumulative GPA: 4.333	Ph.D. Candidate, Mechanical Engineering Expected May 2021
--	--

Columbia University – New York, NY GPA: 3.778	M.S. in Mechanical Engineering, February 2018
---	---

Duke University – Durham, NC GPA: 3.813 Graduated <i>cum laude</i>	B.S.E. in Mechanical Engineering, May 2016
---	--

EXPERIENCE

Columbia University Presidential Fellow – Columbia University, New York NY • Recipient of the most prestigious fellowship given by The Fu Foundation School of Engineering and Applied Science at Columbia.	April 2016 – Present
---	----------------------

Head Teaching Assistant – Columbia University, New York NY <i>MECE 4210 – Energy Infrastructure and Planning</i> (Professor Michael Waite) • Roles included planning lessons, holding office hours and recitations, grading, and coordinating all course communication.	Spring 2018
--	-------------

Angier B. Duke Scholar – Duke University, Durham NC • Selected as one of 15 students in the Class of 2016 to receive Duke’s most prestigious merit scholarship.	August 2012 – May 2016
---	------------------------

ACTIVE RESEARCH

Irrigation Identification and Prediction

- Downloading and processing large datasets of satellite imagery to extract phenologies of irrigated cropland.
- Applying computer vision and deep-learning techniques to known crop phenologies to predict the location irrigation in East Africa.

Electricity Network Analysis and Design

- Using simulated irrigation electricity demands and grid-expansion optimization models to assess electrification pathways in Ethiopia.
- Modeling interconnected grid systems in the Eastern US to determine optimal methods of integrating renewable generation.

PUBLICATIONS

Conlon T., Waite, M., Modi, V. (2019). Prioritizing heating and transport electrification to implement New York’s new climate law. Paper submitted to *Nature Sustainability*, Oct. 2019 (under review).

Conlon, T., Waite, M., Modi, V. (2019). Assessing new transmission and energy storage in achieving increasing renewable generation targets in a regional grid. *Applied Energy*, May 2019.

Conlon, T., Modi, V., Waite, M. (2018). The value of energy flexibility: Integrating wind resources in New York State. Paper presented at the ASME IMECE, Nov. 2018.

AWARDS

-
- | | |
|---|-------------------------|
| • Member, Pi Tau Sigma – <i>National Engineering Honor Society</i> | November 2014 – Present |
| • Pratt Undergraduate Dean’s List | Spring 2013 – May 2016 |
| • National Merit Scholar | Spring 2012 |
| • AP Scholar with Distinction – <i>Ten AP courses taken, scored 5 on each.</i> | Spring 2012 |

PROGRAMMING LANGUAGES

-
- Python (fluent), TensorFlow (fluent), MATLAB (fluent)