CRISTIAN AVILES-MARTIN

CHEMISTRY, PHD

R E S E A R C H I N T E R E S T

Development of new directlycontrolled catalysts that use light to control chemical reaction kinetics and product selectivity. Research is useful for the direct on-demand production of organic molecules.

EDUCATION

PhD Chemistry, University of Connecticut (2017- 2022)

BS Chemistry, Pontifical Catholic University of Puerto

Rico (2013 - 2017)

СОΝТАСТ

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in /cavilesmartin

PUBLICATIONS & PRESENTATIONS

- Establishing Through-Shell Communication for the design of directly controlled switchable catalyst assemblies, Poster Presentation, LSAMP PI/BD Meeting as Emerging researchers National Conference in STEM; February 2019
- Photodegradation of Organic Dyes using CdSTe Quantum Dots, Oral Presentation, TechConnect World Innovation Conference;National Harbor, MD, May 2017
- Characterization of CdSSe and CdSTe Quantum Dots Prepared via Microwave Assisted Synthesis, Poster Presentation,251 st ACS National Meeting and Exposition; March 2016; San Diego, CA, April 2016

ORGANIZATIONS & HOBBIES

American Chemsical Society

SEPT 2013 - PRESENT

- Connecticut Valley Section Younger Chemist Committee
 - (Aug 2018 Present)
 - Organizes events to connect current graduate students in chemistry and related fields to industry members with the purpose of promoting collaboration between industry and academia.
- Green Chemistry Director
 - (Aug 2014 May 2017)
 - Promoted principles of green chemistry
 - Designed and implemented reagent reuse program to reduce hazardous waste.

OUTREACH

UConn Dept. of Chemistry Joint Safety Team

AUG 2018 - PRESENT

- Founding Member and Seminar Chair
- Graduate student-led team focused on promoting safety culture in academic labs.
- Organized industry tours to give graduate students first hand experience on current practices in industry.