**2015-2016**

**2016-Present**

**2015**

**2014-2016**

**Awards and Fellowships**

**NSF**- Northern Ohio Alliance for Graduate Education and the Professoriate

(NOA-AGEP) Program

**NSF**-Louis Stokes Alliance for Minority Participation (LSAMP) Program

**NIH**- Minority Access to Research Careers-Undergraduate Student Training

in Academic Research **(MARC-U\*STAR)** Honors Program

**Richard Perrigan Award** for Service and Involvement in the Chemistry Department, CSULA

**Research**

**Case Western Reserve University / Texas A&M**

Principal Investigator: **Emily Pentzer**

Working towards the development of hybrid nanostructures by assembling graphene oxide and

cobalt oxide at the fluid- fluid interfaces of Pickering emulsions for energy harvesting.

**Columbia University**

Principal Investigator: **Luis Campos**

Worked on the synthesis of novel cyclopropenium derivatives for incorporation into block copolymers for delivery of RNA and DNA into damaged cells.

**California State University, Los Angeles**

Principal Investigator**: Linda Tunstad**

Synthesized a series of self-assembling carboxylic acid resorcinarene based macrocycles

capable of forming capsules or oligomers through a hydrogen bonding network that

would allow the formation reversible interactions with biomolecules and small metal ions.

**2018-Present**

**Summer 2015**

**2013-2016**

**2016**

**2021**

**Education**

**PhD**

**Case Western Reserve University**

Chemistry

**Bachelors of Science**

**California State University Los Angeles**

Chemistry

Maria Escamilla

2080 Adelbert Rd, Cleveland, OH, 44106|(323)50143441|maria7531@TAMU.edu|

**2014 & 2015**

**2013-2014**

**Robert Loudon Memorial Scholarship** Award for Scholastic Achievement, Character

and Service to the Department of Chemistry and Biochemistry

**NIH -** Minority Biomedical Research Support Research Initiative for Scientific

Enhancement **(MBRS-RISE)** Program

Society for Advancement of Chicanos and Native Americans in Science **(SACNAS)** Conference

**Travel Scholarship**

**NIH** - Bridges to the Future Summer Research Program

Math Engineering & Science Achievement Program **(MESA)**

Outstanding Achievement Award

**2015**

**2015**

**2017**

**2019**

**2019**

**Scientific Presentations**

GPC 2019 Conference

**Escamilla Maria**, Emily Pentzer. *Dispersion Emulsion Polymerization of Graphene Oxide and Cobalt Oxide Armored Particles*

Breakthrough Electrolytes for Energy Storage (BEES) Meeting

Poster Presentation

**Escamilla Maria**, Sarah Mitchell, Yun-Yang Lee, Dr. Burcu Gurkan, Dr. Emily Pentzer. *TEMPO Functionalized Small Molecules and Redox-Active Salts for Deep Eutectic Solvents*

Ohio Photochemical Society **(OoPS)** Meeting

Poster Presentation

**Escamilla M,** McCleese C, Clemens Burda, Gold *Nanoparticles for Applications in Phototherapy*

The International Chemical Congress of Pacific Basin Societies **(Pacific-Chem)** Honolulu, HI

Poster Presentation

**Escamilla M**, Buenaflor J, Linda Tunstad. *Synthesis of Self-Assembling Biscavitands for Molecular Recognition and Guest Complexation*

Society for Advancement of Chicanos and Native Americans in Science **(SACNAS)**

Washington, DC

Poster Presentation

**Escamilla M,** Buenaflor J, Linda Tunstad. *Progress in the Synthesis of Self-Assembling Biscavitands*

American Chemical Society (ACS) National Meeting, Denver, CO

Poster Presentation

**Escamilla M**, Buenaflor J, Linda Tunstad. *Synthesis of Functionalized Biscavitands*

**Publications**

[**Stabilization of Oil-in-Water Emulsions with Graphene Oxide and Cobalt Oxide Nanosheets and Preparation of Armored Polymer Particles.** Edgehouse, K.; **Escamilla, M**.; Wang, L.; Dent, R.; Pachuta, K.; Kendall, L.; Wei, P. Sehirlioglu, A.; Pentzer, E. Journal of Colloid and Interface Science, **2019**, 541, 269-278.](https://www.sciencedirect.com/science/article/pii/S0021979719301134)

**Prostate-Specific Membrane Antigen Targeted Gold Nanoparticles for Theranostics of Prostate Cancer**

Joey Dacula Mangadlao, Xinning Wang, Christopher McCleese, **Maria Escamilla**, Gopalakrishnan Ramamurthy, Ziying Wang, Mukul Govande, James P. Basilion, and Clemens Burda. ACS Nano **2018,** 2, 3714-3725

**2010**

**2011-2013**

**2013**

**Teaching and Mentoring**

Teaching Assistant at **Case Western Reserve University-** Organic Chemistry Laboratory

Teaching Assistant, **Cal State LA** -General Chemistry and Organic Chemistry

Two-week general chemistry and organic chemistry lab’s skills workshop for incoming chemistry and

biochemistry students.

Mentoring

**ACS**-Project SEED (high school program)

**NIH**-Bridges to the Future Summer Research Program (community college program)

Description: Worked one on one with high school and community college students participating in summer

research programs. (**ACS**-Project SEED and **NIH**-Bridges to the Future )

Tasks involved with mentorship:

Development of lab skills, research projects, and presentations

**2014**

Society for Advancement of Chicanos and Native Americans in Science **(SACNAS)**

Los Angeles, CA

Poster Presentation

**Escamilla M,** Buenaflor J, Linda Tunstad. *Designing Biscavitand Model Systems for Molecular recognition and Guest Complexation*

Society for Advancement of Chicanos and Native Americans in Science

**(SACNAS)** Conference

San Antonio, TX

Poster Presentation

**Escamilla M,** Buenaflor J, Linda Tunstad. *Synthesis of Self-Assembly Biscavitands for Molecular Recognition and Guest Complexation*

**New England Science Symposium,**

Harvard Medical School

Poster Presentation

**Escamilla M,** Barrera I, Linda Tunstad. *Creating Molecular Capsules*

**ACS** Western Regional Meeting Research Symposium

Poster Presentation

**Escamilla M,** Barrera I, Linda Tunstad. *Creating Molecular Capsules*

Society for Advancement of Chicanos and Native Americans in Science **(SACNAS)**

Los Angeles, CA

Poster Presentation

**Escamilla M,** Buenaflor J, Linda Tunstad. *Designing Biscavitand Model Systems for Molecular recognition and Guest Complexation*

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**2014-2015**

**2016-2019**

**2013-2016**

**2011**

**2012**

**2013**

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Tasks involved with mentorship:

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**Community and Professional Service**

**CSULA Minority Opportunities in Research (MORE) Programs**

Program dedicated to increasing the number of minority students in science.

**Tasks:**

Student Advisory Committee Member

Organized summer and quarterly events for students and faculty

Research Retreat Student Coordinator

Collaborated with representatives from different science departments and MORE programs faculty and

staff to organize and lead a retreat for 150 students.

Panel Moderator

*Applying to Doctoral programs:*

Facilitated a Q&A session with faculty and students from different universities at the CSULA summer research

retreat

**Cal State L.A. Here We Come”**

Sponsored by, The Educational Participation in Communities **(EPIC)** America Reads and America Counts

program

Hosted and performed interactive experiments with children from inner-city elementary schools who are

achieving below grade level in reading and math

**2014-2015**

**Memberships**

Society for Advancement of Chicanos and Native Americans in Science **(SACNAS)**

American Chemical Society **(ACS)**

Women in Sciences and Humanities Earning Doctorates **(WISHED)**

**2013-2015**