

# SYNAPSE

MAKING THOUGHTFUL CONNECTIONS

NATURAL + APPLIED  
SCIENTES

LOYOLA  
COLLEGE  
OF ARTS +  
SCIENTES

April 2019, Issue 7

UPDATES FOR LOYOLA UNIVERSITY MARYLAND'S NATURAL AND APPLIED SCIENCES DIVISION

IN THIS ISSUE

We are pleased to highlight many student and faculty accomplishments and awards as well as recent Celebration of Science and Academic Excellence events this month. If you have news, updates or photos to submit for a future issue, please email [Jen Sullivan](mailto:Jen.Sullivan@loyola.edu).

## Dr. David Rivers receives two Faculty Excellence Awards



**Biology Professor Dr. David Rivers** received the Faculty Award for Excellence in Transformative Teaching at Loyola's 2019 Faculty Excellence Celebration. This award celebrates professors whose imaginative course designs and projects transform the Loyola learning experience. Dr. Rivers was also honored as Loyola's Distinguished Scholar of the Year for his contributions to the field of forensic entomology. Professor Rivers, who is Director of Forensic Studies at Loyola, co-authored the critically acclaimed textbook, *The*

*Science of Forensic Entomology*. Rivers also leads a research team funded by the National Institute of Justice.

## Highlights from Celebration of Science

*Photos of student clubs, data science and forensic studies events*

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## Upcoming Events and Opportunities

*Pop-up classes, NAS Steering Board meeting, Faculty social, fellowship opportunity and more*

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## Dr. Robert Pond elected ASM Fellow

**Engineering Professor Dr. Robert Pond** has been elected as a Fellow of the American Society of Materials International. This honor represents Dr. Pond's distinguished contributions in the field of materials science and engineering. Join us in congratulating Dr. Pond on his election to this esteemed group.



## Student Accomplishments

*Photos from Academic Excellence Weekend including student research symposium and colloquium and honor society inductions*

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## Engineering Student places in BBWTB Pitch Competition



**Engineering major and University Innovation Fellow Rachel Jarman, '21, and Angela Cottini, '21** won second place for their "Robot Roadtrip" pitch at the third annual [Building a Better World Through Business](#). The honor comes along with a \$1000 award to invest in the plan to create a Robot Roadtrip Summer Camp. Rachel's program will encourage students in the Baltimore area to learn and pursue STEM

related opportunities. Rachel and a cohort of Loyola students visit schools near the Evergreen campus to mentor kids between the 4th and 8th grade. Visit <https://loyolamdrobotics.weebly.com> for more about Robot Roadtrip.

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# Highlights from Recent Events

## Celebration of Science



Cybersecurity Club



Forensics Studies seminar, the Untold Story of the Mother of Forensic Science



Robotics Club

NAS hosted a Celebration of Science during the week of April 1–5, highlighting student clubs with tables in Boulder’s atrium each day. Events also included a Forensic Studies seminar by Bruce Goldfarb, executive assistant to the Chief Medical Examiner of Maryland, and Data Science Career Insights Networking and Panel Event.



Current and prospective students, alumni, board members, industry professionals and community members networked during the Data Science event on Tuesday, April 2, 2019.



The panel discussion was moderated by Chair of the Data Science Advisory Board Ed Fortunato, Managing Director at Constellation Energy, and featured professionals from finance, cybersecurity, and software development.

## University Innovation Fellows Pinning Ceremony

On Friday, April 5, Loyola’s third UIF cohort was recognized and celebrated as student change agents during a pinning ceremony as part of Academic Excellence Weekend and Celebration of Science.



Loyola’s third UIF cohort, from left to right: Regina McCoy, Emily Manzo, Jennifer Bower and Rachel Jarman



Members of Loyola’s UIF cohorts, past, present and future!

## April Pop-Up Classes

4/11: Getting Started with Cricut Design Space and Cricut Maker

4/12: Learning LabVIEW: Working with Arduino Microcontrollers

[More info and registration >>>](#)

## Natural and Applied Sciences Steering Board Meeting

Wednesday, April 17, 2019

LND Library, 3rd Floor Board Room

## Summer 2019 Fellowship - Remote Sensing Center

Develop innovative radar systems and integrated aerial platforms with leading radar and aerospace experts at University of Alabama’s Remote Sensing Center.

\$6000 summer stipend with on-campus housing provided.

Spaces are limited. The deadline for applications is Monday, April 15.

[More info >>>](#)

## Attention Students—Help Redesign Lange Lounge!

How would you design and paint our newest makerspace? Submit your design ideas by April 12. The winning artist will be announced on April 17. The artist’s work will be represented in Lange Innovation Lounge.

[More info >>>](#)

Or email [innovation@loyola.edu](mailto:innovation@loyola.edu)

## Faculty Study Day Social

Wednesday, May 1 (Study Day!)

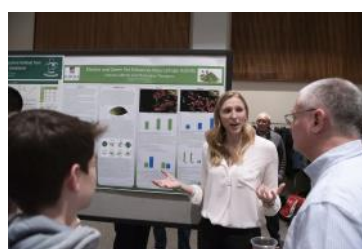
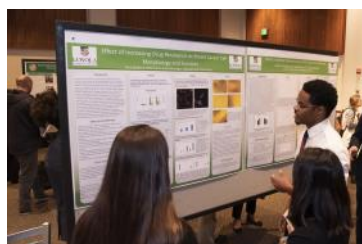
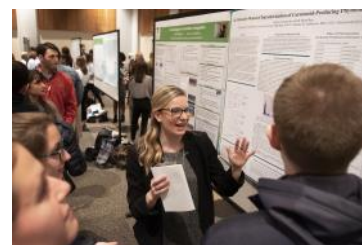
HUG Lounge, 3–5 pm

Sponsored by NAS

# Student Accomplishments

## Undergraduate Student Research Symposium and Colloquium

On Friday, April 5, Loyola hosted the 20th Annual Undergraduate Student Research Symposium and Colloquium, a campus-wide forum highlighting student research and scholarship. The Natural and Applied Sciences division was well-represented by thirty talented students from various disciplines. Congratulations to all who participated and special congratulations to those awarded the top three prizes for oral and poster presentations, listed below.



### USRSC Natural & Applied Sciences Winning Presentations

#### Oral Presentations

**1st Place: Nicholas Adams, '19, Chemistry**

Chemoenzymatic Tandem Reactions under Micellar Conditions

**2nd Place: Christina Kingsley, '19, Biology and Sociology**

Influence of black tea on macrophage activity

**3rd Place: Meghan Parry, '19, Mechanical Engineering**

Manufacturing Ancient Greek Linen Armor

#### Poster Presentations

**1st Place: Charles Cash, '19, Biochemistry**

Effects of JARID1C Overexpression on Carcinomic Stem Cell Growth

**2nd Place: Hannah LaMond, '20, Biochemistry**

Green Tea and Matcha Affect Macrophage Activity

**3rd Place: Chet Pajardo II, '20, Electrical Engineering**

Circuit Design for Probabilistic Computation

### Upsilon Pi Epsilon Induction Ceremony



The Upsilon Pi Epsilon (UPE) honor society promotes the computing and information disciplines. The induction ceremony, pictured below and left, was held on Saturday, April 6.



### Pi Mu Epsilon Induction Ceremony



The Pi Mu Epsilon honor society promotes mathematics and recognizes students who successfully pursue mathematical understanding. The induction ceremony, pictured above, was held on Friday, April 5.