



**Science Coach**  
EDUCATE • INNOVATE • ACHIEVE

# RESEARCH TEACHER WEBINAR SERIES

For teachers of 6-12 grade authentic research classes

**OCTOBER 8** 3:30-4:30 PM CST

## Microbiology 101

PRESENTER: **Mr. Jim Morrison**

Jim Morrison from St. Louis Community College will discuss and demonstrate basic techniques for working with BSL1 bacteria, including aseptic technique, streaking, and isolating colonies.



**JANUARY 14** 3:30-4:30 PM CST

## Behavioral Science Project Design

PRESENTER: **Dr. Caleb O'Brien**

Dr. Caleb O'Brien from the Missouri Department of Conservation will discuss best practices for the design of behavioral science projects, including good survey construction, creating study groups, and data collection.



**NOVEMBER 12** 3:30-4:30 PM CST

## Projects With Pollinators

PRESENTER: **Dr. Genevieve Pugsek**

Dr. Genevieve Pugsek from the Xerces Society will discuss how to conduct ecology projects dealing with pollinators and other invertebrates, as well as citizen science projects students can participate in through the Xerces Society.



**FEBRUARY 11** 3:30-4:30 PM CST

## Drones in Research - Precision Agriculture and Beyond

PRESENTER: **Mr. Juan Carlos Antolinez**

Juan Carlos Antolinez from Falcon Aerial Analytics will present current research applications of drones, including in agriculture and ecology, as well as the technical considerations of working with drones and the certifications required.



**DECEMBER 10** 3:30-4:30 PM CST

## Scientific Writing

PRESENTER: **Dr. Christopher Schott**

Dr. Christopher Schott from University of Missouri - St. Louis will share the basics of scientific writing and how it is different from the traditional writing style that most students are used to.



### SCAN TO REGISTER

\$75/session • \$300/entire series

*Sessions will be recorded and a link will be made available after the event.*



# SCIENCE COACH PRESENTERS



## Mr. Jim Morrison

Jim Morrison has a B.S. Chemistry from Washington University in St. Louis with other coursework at University of Missouri - Columbia and the biotechnology program at St. Louis Community College. He has been a manager in various capacities with ICI and BASF. He currently manages a team creating online learning for the financial services industry. Mr. Morrison is a Master Gardener and volunteers with the Ferguson Farmers Market and Friends of the Market Community Garden in Ferguson.



## Dr. Genevieve Pugesek

Dr. Genevieve Pugesek is one of the project managers of the Bumble Bee Atlas, a community science project aimed at tracking and conserving bumble bees. She works with Atlas programs in Missouri, Nebraska, Iowa, and Minnesota. She is broadly interested in conservation biology, land management, and animal natural history. She earned her Ph.D. at Tufts University, where she studied the nesting and overwintering ecology of bumble bees. Prior to working at Xerces, Dr. Pugesek worked as a postdoc at University of Wisconsin - Madison, studying the effects of prescribed fire in oak savannas on bumble bee abundance. Outside of work, Dr. Pugesek enjoys baking, painting, and spending time outside.



## Dr. Christopher Schott

Dr. Christopher Schott is an Associate Teaching Professor of English and Writing Center Coordinator at the University of Missouri - St. Louis. As a composition and rhetoric professor, he teaches a variety of courses, including Writing in the Sciences, Technical Communication, Rhetoric and Horror, as well as courses in literacy studies and digital communication. As a Coordinator for UMSL's Writing Center, he works closely with students, faculty, and staff at creating a strong culture of writing on the UMSL campus. Outside of teaching, Dr. Schott's research focuses on digital communication, critical discourse analysis, and how rhetoric is used in social spaces.



## Dr. Caleb O'Brien

Dr. Caleb O'Brien is the Social Science Program Supervisor at the Missouri Department of Conservation. Dr. O'Brien received his PhD from Virginia Tech's Department of Forest Resources and the Environment in 2023, where he studied how communities around the United States are responding to climate change as part of a National Science Foundation Advancing Informal STEM Learning project.



## Mr. Juan Carlos Antolinez

Juan Carlos Antolinez is the President of Falcon Aerial Analytics, a leading company specializing in advanced drone-based data analytics in the United States. With a strong background in engineering and entrepreneurship, Mr. Antolinez has been instrumental in expanding the company's operations across North and South America. Under his leadership, Falcon Aerial Analytics has established a strategic partnership with Calidad Ambiente e Ingeniería S.A. in Colombia, enabling the company to extend its cutting-edge aerial solutions to various industries across the region.

Mr. Antolinez's expertise in engineering, combined with his visionary approach to business, has driven the growth and innovation of Falcon Aerial Analytics. His work emphasizes leveraging drone technology to provide critical insights for agricultural optimization, environmental monitoring, infrastructure, and inspection. His leadership has positioned the company as a key player in the aerial analytics industry, with a significant presence in both the United States and South America.



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