

PARK TUDOR  
PRESENTS

**MARCH & APRIL 2019**

# Global Scholars Presentations



# Global Scholars Presentations

## MARCH 19, 2019 LECTURE HALL

### — Tommy Gallagher 6PM

Understanding The New Rules of Engagement: Analyzing the Current Role of Defenders in the Field of Cybersecurity

### — Arunabh Sinha 7:45PM

From the Sidelines: A Utilitarian Examination of the Societal and Personal Benefits Weighed Against the Bodily and Neurological Impacts of High-Intensity Sports

## MARCH 21, 2019 LECTURE HALL

### — Julia Waddles 6PM

Family Matters: A Study on the Breakdown of the African American Family

### — Ellie Sing 7:45PM

She's Asking For It: A Talk About Slut Shaming and How It Encourages Rape Culture

## APRIL 9, 2019 WOOD ROOM

### — Arya Bolla 6PM

Not a Registered Donor? I've Got a Bone to Pick with You: An Analysis of the Mechanisms and Demographics of Bone Marrow Transplants

### — Nikitha Damera 7:45PM

The Moral Quandary of a Convicted Sociopath: The Science of Right and Wrong

## APRIL 11, 2019 WOOD ROOM

### — Will Wallentine 6PM

Back to Bacteriophages: How a Medicine From the Past is Being Used Today

### — Alec Henry Weiker 7:45PM

Strangers in Their Own Land: An Investigation of Cultural Relativism and Its Implications for LGBTQ+ People



# Tommy Gallagher

**MARCH 19, 2019 • 6PM • LECTURE HALL**

## **Understanding The New Rules of Engagement: Analyzing the Current Role of Defenders in the Field of Cybersecurity**

Throughout high school, I have been particularly interested in computer science and the endless possibilities that technology presents, however I have also realized the increasing need for cybersecurity and have wanted to further investigate this area. As contemporary society continually develops new technologies and relies on them more heavily than ever, it is imperative for society to find ways to enhance and emphasize cybersecurity. Beginning in the 1980s, a lack of cybersecurity impacted internet users around the globe, leading up to constant security threats in today's modern world. Cybersecurity will only present more complications in the future, as more technologies are created and both hackers and security experts advance their mechanisms. My presentation will examine the historical impacts of cybersecurity, the current problems and implications surrounding cybersecurity, and the future possibilities and challenges, both positive and negative, of cybersecurity. I would like to thank my parents, friends, my mentor Brian Sutton, and Ms. Sidey, for their support and guidance throughout this whole process.



# Arunabh Sinha

**MARCH 19, 2019 • 7:45PM • LECTURE HALL**

**From the Sidelines: A Utilitarian Examination of the Societal and Personal Benefits Weighed Against the Bodily and Neurological Impacts of High-Intensity Sports**

From my first recesses in lower school scraping my knees playing football with my classmates, to watching professional players like Austin Collie sustain concussions, I was always interested in finding the reasons people play high-intensity sports given the injury risks. This interest peaked when amidst the media coverage of concussions and CTE, the film *Concussion* came out, inspiring me to understand the long-term effects of Dr. Bennet Omalu's research. Following the footsteps of my parents who are both physicians, I aim to examine the benefits and harms of playing sports through a scientific and sociological lens. I am thankful for the unwavering support of my teammates and coach Dr. Aaron Yengo-Kahn.



# Julia Waddles

**MARCH 21, 2019 • 6PM • LECTURE HALL**

**Family Matters:  
A Study on the Breakdown of  
the African American Family**

Working at the Lower School aftercare program and volunteering at the Boys and Girls Club has allowed me to interact with kids on a daily basis. Combine this and my passions for advocacy and social justice and the result is my project: a look into the breakdown of the African-American family. Throughout my education, I have always been interested in how history shapes the present and how we view the now in comparison to the past. My love for this topic stems from both my own journey of identity, as a black and Asian young woman, and my interests in studying how one's family can shape everything about them. Throughout this process I have learned lots about the family unit and the impact that we have on the next generation. I would like to thank my parents, teachers, friends, and panelists for their encouragement and never-ending support.





# Ellie Sing

**MARCH 21, 2019 • 7:45PM • LECTURE HALL**

**She's Asking For It:  
A Talk About Slut Shaming and  
How It Encourages Rape Culture**

In today's society and culture, especially in our current political climate, interest in women's rights has risen rapidly. The emergence of the Me Too movement would be one example of this. However, despite this new energy, I continue to notice the normalization of using derogatory language to characterize the sexual behavior of women or "slut shaming" in the media, in music, and in person. Growing up as Mexican, Chinese, and also a woman, I have always struggled to understand how unjust environments flourish and function in the United States. I believe that the acceptance of slut shaming in today's generation encourages the cultivation of rape culture. The Global Scholars Program has provided me with a platform to speak about a topic I am passionate about and share it with my peers. I would like to thank my family, teachers, friends, my mentor Ms. Krouse, and panelists along with Ms. Sidey and Mr. Bohrer for inspiring me and supporting my project.



# Arya Bolla

**APRIL 9, 2019 • 6PM • WOOD ROOM**

**Not a Registered Donor? I've Got a Bone to Pick with You:  
An Analysis of the Mechanisms and Demographics of Bone  
Marrow Transplants**

After working with Be the Match, a national non-profit bone marrow registry organization, I discovered first hand the importance of bone marrow transplants in the lives of so many. My experiences with Be the Match have driven my interest in bone marrow transplants and the demographics of the patients who need them. Throughout this process, I have been so grateful for the support of my mentor, Be The Match, and Ms. Sidey.





# Nikitha Damera

**APRIL 9, 2019 • 7:45PM • WOOD ROOM**

## **The Moral Quandary of a Convicted Sociopath: The Science of Right and Wrong**

For years, the Global Scholars Program has given students a platform to become more self-sufficient by helping us develop useful skills and make the most out of every opportunity. Alongside learning how to become a more well-rounded individual, Global Scholars has thoroughly challenged my perspective of the world. It has taught me to embrace empathy and acknowledge every side to a situation. Therefore, this presentation aims to analyze how one differentiates between right and wrong against the backdrop of such a complex society. Specifically, I am interested in applying this notion to a convoluted issue; how do we approach the issue of mentally ill criminals? Do we convict them for the violence they impose on society? Or do we take into account that they might lack control of their own actions? I'd like to thank Ms. Sidey, Mr. Bohrer, my friends, and my family for dealing with my indecisive nature when selecting a topic and giving me their full support along the way.





# Will Wallentine

**APRIL 11, 2019 • 6PM • WOOD ROOM**

**Back to Bacteriophages:  
How a Medicine From the Past is Being Used Today**

Everyday our lives are shaped and determined by forces and entities that our limited perception fails to see, and after taking a microbiology class junior year, I became fascinated by the microscopic world. Bacteriophages, which belong to a tiny sliver of this environment, occupy a huge amount of my interest. My topic focuses on how bacteriophage, which are viruses that infect bacteria, can help us fend off bacterial infections, and the odd history behind that scientific discovery and subsequent research.



# Alec Henry Weiker

**APRIL 11, 2019 • 7:45PM • WOOD ROOM**

## **Strangers in Their Own Land: An Investigation of Cultural Relativism and Its Implications for LGBTQ+ People**

Anyone who knows me knows that I love to debate. So when it comes to questions of human rights and LGBTQ rights, something close to my heart, no one is quicker to come to the defense than I am. This is why I am proud to present my Global Scholars presentation on the validity of cultural relativism, a philosophy notorious for justifying discrimination. Thank you to my parents, friends, Mr. Bohrer and Ms. Sidey for always listening to my nonsensical argumentative rants and keeping me sane throughout this process.