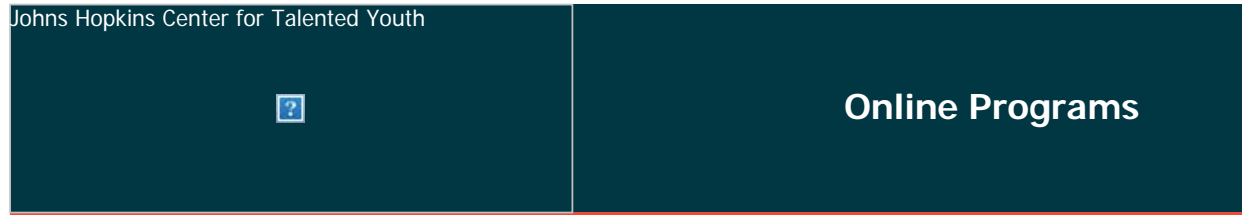


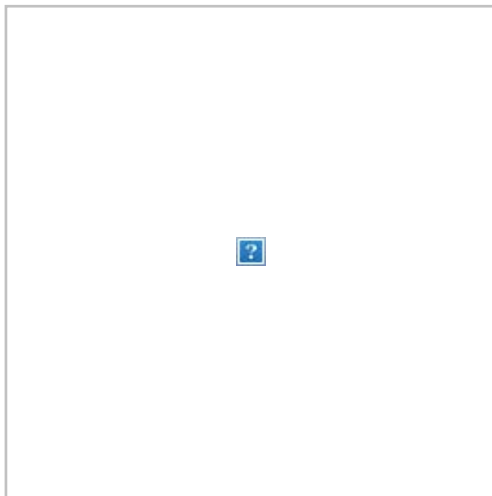
**From:** [Ali Ali Yousuf](#)  
**To:** [Ali Ali Yousuf](#)  
**Subject:** FW: Meet the teacher  
**Date:** Wednesday, April 11, 2018 2:44:27 PM

On Wednesday, April 4, 2018, 6:33:52 PM EDT, Johns Hopkins Center for Talented Youth <[ctyinfo@jhu.edu](mailto:ctyinfo@jhu.edu)> wrote:



[Advanced Placement](#) [Computer Science & Technology](#) [Writing, Music, & Visual Fluency](#) [Math Science & Engineering](#) [World Languages & English Language Development](#) [Critical Reading](#) [Grammar](#)

## CTY Online Instructor Spotlight



### MUHAMMAD ALI YOUSUF

Muhammad Ali Yousuf has been teaching multivariable calculus and AP Physics courses at CTY since 2012. He is also an adjunct professor of physics at Johns Hopkins University's Krieger School of Arts and Sciences, where he teaches a Physics of Sports course to undergraduate students. Yousuf has a Ph.D. in mathematical physics and post-doctoral experience in medical device design. In addition to teaching, he continues to do research and development in the field of medical devices.

### WHY CTY?

Yousuf loves working with CTY students because they are both kids and intellectuals at the same time. Their nascent minds can think beyond the ordinary and question the established wisdom, he says.

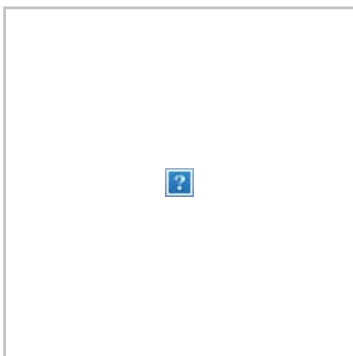
The self-paced nature of his CTY courses allows mathematically advanced students to work around their schedules and communicate with their teacher in the format they choose. Many of his students are introverted and would rather not face a teacher every day, so he hosts review sessions in the format that works best for them, be it via text, phone, or email. The online classroom is also a safe environment to ask questions and to learn from mistakes. Many students who want to learn advanced physics or mathematics find this environment particularly supportive, Yousuf says.

### HIS TEACHING PHILOSOPHY

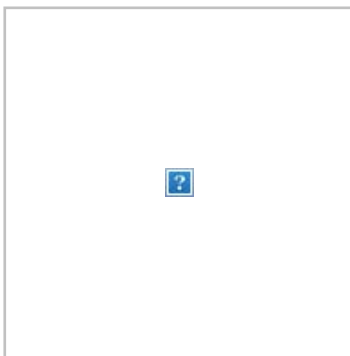
When students are busy and lost in the nitty-gritty details of, say, three-dimensional surfaces, Yousuf challenges them to stop and see the big picture: where, in the whole scheme of science and understanding of the universe, does this theorem fit? Making those kinds of connections helps bright kids internalize advanced concepts, he says.



## Items on His Desk



Yousuf saw the first “Star Wars” movie when he was a kid and has been inspired by the character of Yoda ever since. A photograph of Yoda on his desk is a reminder that the most powerful beings in the universe can also be the most peaceful, and that peace is not a sign of weakness.



His “Ten equations that changed the world” poster is proof that equations have a rhythm and life of their own, and that they represent the external physical universe within the confines of his office.



A cactus plant on his desk is a reminder of his childhood. When Yousuf was a kid, he was so crazy about cacti, he bought all books available in the market and visited every nursery in the city to find new varieties.

[EXPLORE CTY COURSES](#)

Calendar



## UPCOMING DEADLINES

CTY Online Programs Early Summer Session 2018  
Registration Deadline is **May 21**.

[Learn More](#)



## NEED HELP?

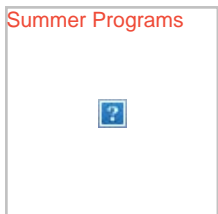
You can learn more by calling us at [410-735-6166](tel:410-735-6166) or sending an email to [ctyonline@jhu.edu](mailto:ctyonline@jhu.edu). Please note that some courses have grade level eligibility requirements.



## International Pathways to U.S. Universities

Designed specifically to guide CTY international students and their families through the U.S. university undergraduate admissions process. [Learn more.](#)

### Summer Programs



## CTY Summer Programs

### Your kid + CTY = 1 Spectacular Summer

CTY Summer Programs offer small class sizes, challenging courses, subjects you might not encounter in school, expert instructors, and classmates who share a love of learning. [Learn more.](#)

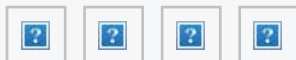
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