



# Professional Development Webinars

## Probability Simulations for All

Fall 2018

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# Moderator Bio



## Mike Houston

**T<sup>3</sup> National Instructor  
Riverside High School  
Ellwood City, PA**

Mike is in his fourteenth year of teaching high school mathematics in Ellwood City, PA. While participating in a TI-Navigator™ Fast-Track in 2007, he learned how technology can effectively cultivate students' wide range of learning styles. During this time, Mike has served as a T<sup>3</sup> National Instructor and a contributing author for MathForward™.

# Panelists' Bios



**Rachael Gorsuch**

**T<sup>3</sup> Regional Instructor**

**Columbus, OH**

Rachael is in her 13th year of teaching. She has taught in inner city, rural, and is now at the private school, Columbus Academy. Her inspiration comes from when students ask, “When are we ever going to use this in real life?” Rachael uses technology and mathematical modeling to help her students investigate this question daily.

Twitter: @rachaelgorsuch



**Scott Keltner**

**T<sup>3</sup> Regional Instructor**

**Eudora, KS**

Scott Keltner teaches mathematics at Eudora High School in Eudora, Kansas. Scott relates to his students through creative, engaging class examples, including dressing like Doc Brown of “Back to the Future”, Slope-R Mario akin to the Nintendo character, and even a take on Justin Timberlake’s 20/20 Experience album cover. He uses TI technology to make learning more hands-on, visual, and manipulative to fit the interests of his students.

Twitter: @ScottKeltner

# Agenda

- Welcome & introductions
- What is simulation, and why engage in simulation?
- Extend probabilities of single events
- Transition into binomial probabilities
- Visualizing the normal curve

## Expected Outcomes:

- **Explore** theoretical vs. experimental probability
- **Demonstrate** examples of simulations of probabilities that are difficult to compute directly
- **Share** activities that will engage students in creating simulations for these difficult-to-compute probabilities



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