AMATYC Virtual Conference 2020 Schedule

November 20 – hosted by WILEY

(Times Eastern)

Register on the Wiley Event Site to get your confirmation number so that you can access Friday's sessions!

Between sessions, stop by the AMATYC 2021 Conference Booth to learn about next year's conference and talk with members of the Phoenix Local Events Committee!

11:00 – 11:55 ET	**13A** Keynote Address Sponsored by Wiley **When Good Students Make Bad Decisions: The Psychology of Why Students Cheat** Academic misconduct poses an existential threat to higher education, thwarting learning objectives and calling students' credentials into question. Authentic learning requires understanding the individual, situational, and cultural factors influencing a student's willingness to "cheat." Then actions can be taken at institutional, faculty, and societal levels to make student learning most effective. David Rettinger Director of Academic Integrity Programs University of Mary Washington Fredericksburg, VA			
12:00 – 12:45 ET	**14A** **Revealing Human Progress** Good news: The world has made spectacular progress in many measures of human welfare. Bad news: Very few people realize this. This presentation will feature many examples of data, activities, and assignments through which teachers of statistics, mathematics, and quantitative reasoning can make students aware of human progress. Allan Rossman Cal Poly, San Luis Obispo San Luis Obispo, CA MN, ST, TC	**14B** **Flip into Active Learning** Do you need to create some time in your classes for active learning? Thinking about flipping to achieve this goal? Come learn why this instructor has been flipping for seven years and how to ensure it can be successful for you too. Julie Gunkelman Oakland CC Farmington Hills, MI TL	**14C** **Culturally Responsive Teaching in Collegiate Mathematics** "Uncomfortable" problems permeate the mathematics curriculum. In this session, the Condominium Problem is highlighted as a problem that elicits feelings of exclusion with respect to gender identity and sexual orientation. Should teachers continue using such problems? How can students' dignity be preserved while simultaneously teaching important mathematics? Keith Nabb Piedmont Virginia CC Charlottesville, VA Jaclyn Murawska Skokie/Morton Grove School District 69 Skokie, IL EQ, IG	**14D (sponsored by WILEY)** **Aha! Moments: Teaching with Mastery-Based Adaptive Courseware** Adaptive learning seems to be everywhere! Examine what makes Knewton Alta different and how Alta improves student success. The presenter will share best practices for implementation of adaptive learning into a successful online setting. Come see why so many of your colleagues are becoming Knerds. Becky Moening WILEY

1:00 – 1:45 ET	**15A** **OMG! First Time Teaching Intro Stat!!** Teaching statistics the first time can be overwhelming! First timers usually have lots of questions. What concepts are most important? What about hands-on activities? What resources are available and where can "good" ones be found? How can conceptual understanding be assessed? Come join in the discussion and bring your questions. Roxy Peck Cal Poly, San Luis Obispo Los Osos, CA ST	**15B** **Improving Engagement & Interaction in Online Discussions** Attendees will consider discussion board topics for engaging and motivating math students. Because discussion boards are a primary place for student interaction, learn how the presenter expanded the scope of topics and the results she has seen. Time will be given to brainstorm new topics to use in your courses. Lori Holdren American College of Healthcare Sciences Portland, OR TL, SM	**15C** **Math in a Veterinary Medical Technology Program** A three-year, grant-funded, collaborative effort between a math professor and a Certified Veterinary Technician is discussed. Medical Math for animals (and humans too) is integral for the technicians' careers and their board exams, but few solid resources are available. The instructors used their own backgrounds to fill these identified gaps. Heidi Lyne Joliet Junior College Joliet, IL Chris Berta Joliet Junior College Joliet, IL TC, PD, RG	**15D (sponsored by WILEY)** **Adaptive Pedagogy: The Learning Science Behind Alta** Join a data scientist and a product designer as they discuss how Knewton Alta balances pedagogy and learning science to help all students achieve mastery. There will be graphs! Hear how Wiley is working behind the scenes to constantly improve courses using data. Also see some prototypes of new adaptive models being worked on. Andrew Jones Greg Hitt WILEY

2:00 - 2:45 ET	**16A** **Engaging Students with Statistical Software in Introductory Statistics** Engaging students with statistical software in an introductory statistics course deepens their understanding of statistical concepts while allowing them to think critically about the context at hand. This presentation will introduce you to a free statistical software, CODAP, by engaging with classroom activities you can apply to your classroom. Carrie Ritter Randolph CC Asheboro, NC ST, TL	**16B** **A CA Success: A FREE Coreq College-Ready Math System for Students** California's AB 705 resulted in the 114 community colleges experimenting with ways for students to succeed in transfer level mathematics without placement tests or developmental education prerequisites. Presenters will share a new math collaboration among National University in San Diego, the National Laboratory for Education Transformation, colleges, and high schools. Barbara Illowsky De Anza College Cupertino, CA Richard Rasiej Santa Monica College Santa Monica, CA PS, SM, TL	**16C** **Open Online Resources for Teaching Quantitative Concepts in Nursing** A national task force seeking to improve mathematics education for nurses has called for mathematics educators to "integrate the complexities of nursing practice throughout instruction," including in-class activities, tasks, and assessments. This session will share open, online resources for supporting learners' understanding of essential quantitative concepts for safe nursing practice. Daniel Ozimek Pennsylvania College of Health Sciences Lancaster, PA Lindsay Goode Pennsylvania College of Health Sciences Lancaster, PA MN, SM, TL	**16D (sponsored by WILEY)** **Real Talk--Student Success: A Gateway to College Credits and Degree Completion** Join a lively conversation about drivers of student success. In this session, you will explore strategies to improve success for all students and examine the paradigm shift in higher education. Discuss ways to improve student success through pedagogy and how to harness the power of data to empower students and faculty. Cynthia Young Clemson University Clemson, SC
3:00 - 3:45 ET	**17A** **Teaching Statistical Thinking** Deliberately teaching statistical thinking is encouraged in both the 2016 GAISE recommendations and the 2018 *IMPACT* document. After summarizing the recommendations in these two documents, several definitions of statistical thinking will be explored. Modeling and assessing statistical thinking will be discussed through two different introductory statistics topics: correlation and histograms. Mark Earley Columbus State CC Westerville, OH ST	**17B** **Communication, Connections, and Conceptual Clarity** Mathematics classrooms are full of problems. Students often regurgitate recipes to solve them, but do they understand the underlying concept? Several Calculus II courses were taught using guided notes and activity sheets with either physical 3D-models or 2D-digital resources. Compare performance on "Concept Check" questions and student survey results. Lee Singleton Whatcom CC Bellingham, WA MI, TL	**17C** **Engage in Critical Conversations to Create a Vision for Math Education** NCTM recently released the Catalyzing Change series with recommendations for PK-12 mathematics to initiate critical conversations for improving mathematics teaching and learning. What are the implications for students and faculty in two-year colleges? What partnerships can be developed for a shared vision to support a successful future in mathematics education? Trena Wilkerson Baylor University Waco, TX PD, SM, TC	**17D (sponsored by WILEY)** **Driving Student Success in Introductory Statistics** Many modern methods, such as simulation-based inference and data visualization, can dramatically enhance student understanding and student success rates in Introductory Statistics. See some of these ideas illustrated and learn how to incorporate them into existing courses using freely available and easy-to-use online resources. Examine the evidence supporting how these methods can dramatically increase the potential for all students to succeed. Patti Frazer Lock St. Lawrence University Canton, NY

4:00 - 4:30 ET	**KnerdQuest** Join your fellow Knerds in an end of day finale of fun where friends will be made, champions will be crowned, and Knerds will reign. Be there or be square to collect your prizes.