

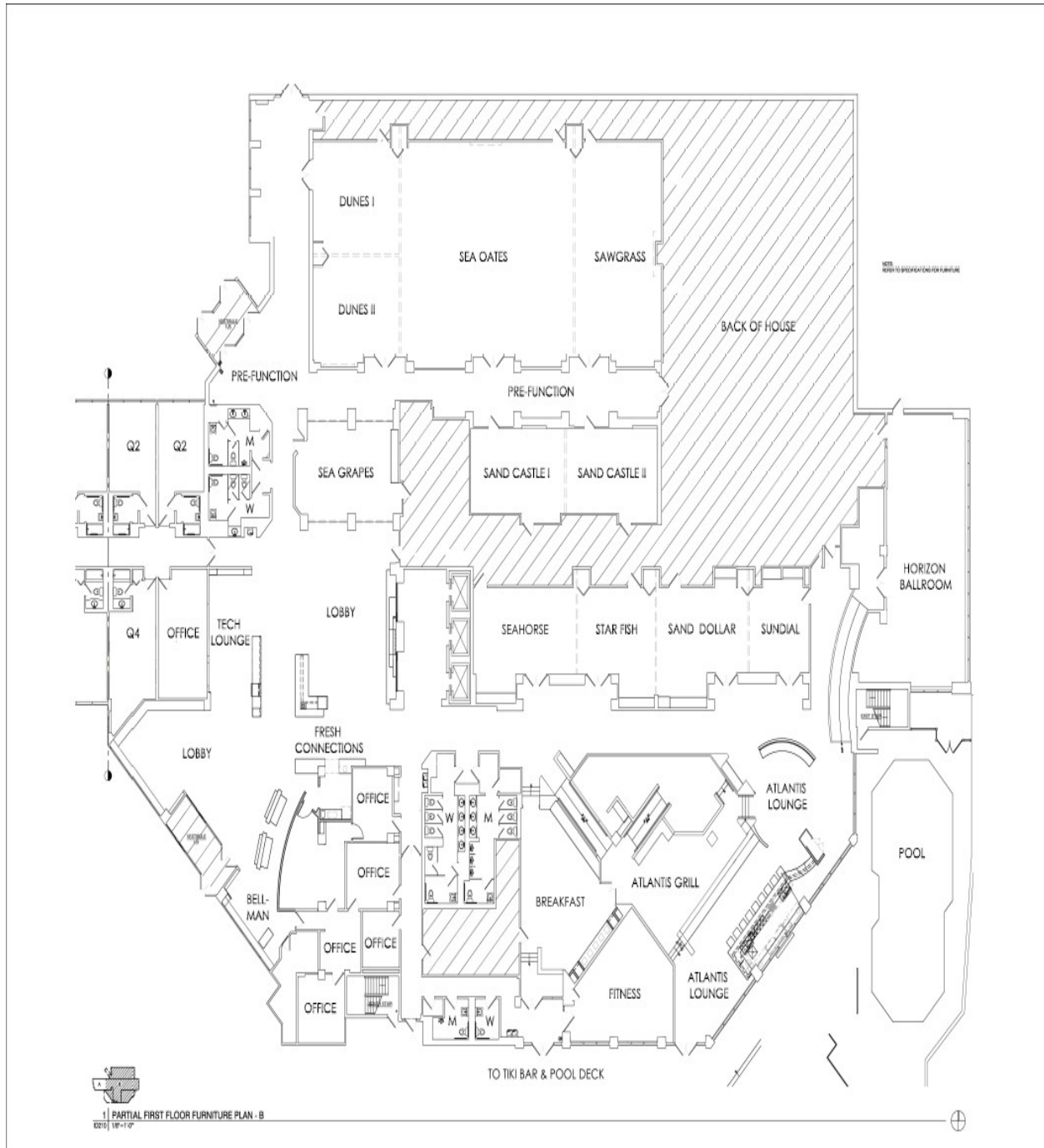
**Tentative Program**  
**Florida Educational Research Association**  
***62<sup>nd</sup> Annual Meeting***



**The Hilton Cocoa Beach, Cocoa Beach, FL**

**November 15-17, 2017**

# Hotel Floor Plan



# **Thank you to our sponsors!**

**American Institutes for Research  
Performance Matters  
University of Florida  
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Robert F. Dedrick  
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Bruce Hall**

# Wednesday, November 15

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REGISTRATION

**8:00 am – 5:00 pm   Pre-Function**

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PROFESSIONAL DEVELOPMENT SESSION

**8:30 am – 11:00 am   Sand Castle 1**

## **Introduction to Visualizing Analytics: How Visualizing Data can Enhance Analytical Techniques**

### **Workshop Facilitators:**

Dr. A. Corinne Huggins-Manley  
University of Florida

Ren Liu  
University of Florida

**Description:** This workshop will provide an introduction to data visualization, demonstrate some examples of helpful visualization techniques, and cover some of the common pitfalls in visualizing data and analysis. Examples will be shown in R Studio and participants are encouraged to bring their laptops to play along. Persons with little background in graphical techniques and data visualization will benefit most from the workshop.

## Estimating Equating Variance in Two Dimensions with Cluster Sample Designs

### Speaker:

Dr. Harold Doran  
American Institutes for Research

**Description:** Test equating using a common item non-equivalent groups design is a typical procedure used in operational testing programs. After equating, scores across forms are comparable, within the bounds of equating error. Equating error under a common item design arises from two different sources—the sampling of students and the sampling of common items. If IRT assumptions held perfectly, then the same equating function would be arrived at with any subset of students or items. However, invariance assumptions do not hold in real world conditions, thus the variability due to sampling of students and the sampling of common items both contribute to the magnitude of the variance in the estimated equating parameters. This paper extends prior research on the topic by accounting for the design-effects in the cluster samples and shows that while the proportion of variance due to the common items is large, it may not be as large as documented in prior research. All results are contextualized as impact data by placing the results onto the reporting scale used to report student performance.

**Biography:** Dr. Harold Doran is Managing Director at AIR. His work is primarily focused on psychometrics, computational statistics, and value-added models.

# Wednesday, November 15

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LUNCH ON YOUR OWN

**12:00 pm – 1:00 pm**

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EDUCATIONAL RESEARCH IN MATHEMATICS AND STATISTICS

**1:00 pm – 2:30 pm Dunes 1**

***Shedding light on the measurement invariance of the Mathematics Attitudes Scale across the Gulf Cooperation Council countries using TIMSS 2015***

- Abeer Alamri, University of South Florida

***Factors underlying mathematical performance: The role of spatial ability and verbal-logical reasoning ability***

- Erhan S. Haciomeroglu, University of Central Florida

***Impact of the Algebra Nation tutoring program on the performance of students who retake the end-of-course exam***

- Walter L. Leite, University of Florida
- Dee Duygu Cetin-Berber, University of Florida
- Zachary K. Collier, University of Florida
- A. Corinne Huggins-Manley, University of Florida
- Carole R. Beal, University of Florida

***The effect of statistics anxiety on student performance in an undergraduate online statistics course***

- Li Cheng, University of Florida
- Carole R. Beal, University of Florida
- Megan Mocko, University of Florida

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APPLIED STATISTICS IN EDUCATIONAL RESEARCH I

**1:00 pm – 2:30 pm Dunes 2**

***Multicollinearity's effect on regression prediction accuracy – take two***

- Mary G. Lieberman, Florida Atlantic University
- John D. Morris, Florida Atlantic University

***Type I error robustness of Welch's test and Mann-Whitney-Wilcoxon test***

- Nan Wang, Florida State University

***Can school program and neighborhood crime levers improve school suspensions?: A multilevel analysis***

- Jiwon Nam, Florida International University
- Mido Chang, Florida International University

# Wednesday, November 15

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## ***Using smart-PLS for the analysis of the effect of bullying victimization on English Learner anxiety, fear of assimilation and ethnocentrism***

- Hilal Peker, Florida State University
  - Liying Feng, Florida State University
  - Wenting Song, Florida State University
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PANEL SESSION

**1:00 pm – 2:30 pm Sand Castle 1**

## **Does teacher engagement lead to increased student achievement?**

### **Panelists:**

- Peggy Jones, Director, Pasco County Schools
- Shane McFeely, Gallup
- Joni Booth, Gallup

### **Moderator:**

Dr. Theodore Dwyer

**Description:** Gallup has partnered with a large, urban Florida school district to examine the impact of selecting talented teachers and engaging them in their work every day on a host of district outcomes including teacher performance evaluations and student performance metrics. Join Gallup and Pasco County as they present emerging trends from their joint research endeavor and discuss how to turn these research insights into action in a district with approximately 5,000 teachers and 70,000 students.

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COFFEE BREAK BY UNIVERSITY OF FLORIDA

**2:30 pm – 3:00 pm Sea Grapes**

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ADVANCES IN COMPUTER TESTING TECHNOLOGY

**2:45 pm – 4:15 pm Dunes 1**

## ***New routing methods in computerized multistage testing***

- Halil I. Sari, Kilis 7 Aralik University
- Anthony Raborn, University of Florida

## ***Computerized adaptive multistage testing with missing responses***

- Dee Duygu Cetin-Berber, University of Florida
- Halil I. Sari, Kilis 7 Aralik University
- A. Corinne Huggins-Manley, University of Florida

## ***Treatment of item nonresponse in computerized adaptive multistage testing***

- Dee Duygu Cetin-Berber, University of Florida
- Halil I. Sari, Kilis 7 Aralik University

## ***Mixed adaptive computerized multistage testing***

- Anthony Raborn, University of Florida
- Halil I. Sari, Kilis 7 Aralik University

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## APPLIED PSYCHOMETRICS AND SINGLE-CASE METHODS

**2:45 pm – 4:15 pm Dunes 2**

## ***An evaluation of the van Hiele Geometry Test: Comparing analyses from three psychometric methods***

- Yi-hsin Chen, University of South Florida
- Sharon Senk, Michigan State University
- Denisse Thompson, University of South Florida
- Kevin Voogt, Michigan State University

## ***Locating non-invariant parameter in measurement invariance analysis using BC bootstrapping method***

- Jiajing Huang, Florida State University
- Yachen Luo, Florida State University
- Yanyun Yang, Florida State University

## ***Synthesizing single-case studies: Methods of handling data complexity***

- Ke Cheng, University of South Florida
- Zhiyao Yi, University of South Florida
- John M. Ferron, University of South Florida

## ***A model performance comparison between MGCFR and MIMIC model for detecting DIF items***

- Jun Liu, University of Florida
- David M. Miller, University of Florida

# Wednesday, November 15

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## EDUCATIONAL RESEARCH FOCUSING ON STUDENTS

**2:45 pm – 4:15 pm Sand Castle 1**

### ***Preparing high school students for inquiry by impacting research attitudes through a research methods course***

- Maria D. Vasquez-Colina, Florida Atlantic University
- Leila H. Shatara, Florida Atlantic University

### ***A comparative study of game-based online learning in music appreciations on student motivation and achievement***

- Youngju Kang, University of Florida
- Albert D. Ritzhaupt, University of Florida

### ***Examining the Impact of Academic Performance on Barometric Academic Self-Esteem in Students Attending a Historically Black College/ University (HBCU)***

- Novell Tani, Florida Agricultural & Mechanical University
- Akeem T. Ray, Florida Agricultural & Mechanical University

### ***Engage students through a technology-enhanced peer feedback activity: A case study***

- Li Cheng, University of Florida

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## KEYNOTE SESSION

**4:30 pm – 6:00 pm Sea Oats**

### **Predicting State-TIMSS Performance from State-NAEP Performance**

**Speaker:** Dr. Gary W. Phillips  
American Institutes for Research

**Description:** At the request of the National Center for Education Statistics (NCES), AIR has conducted a linking between the National Assessment of Educational Progress (NAEP) and the Trends in International Mathematics and Science Study (TIMSS). The NAEP-TIMSS linking study based on 2015 data. The linking was conducted as part of the NAEP Validity Study (NVS) panel. The linking used statistical moderation in the national NAEP and TIMSS samples. The linking parameters were then applied to state-NAEP and a prediction of state-TIMSS was obtained. In 2015, Florida was the only state that actually administered TIMSS to a state representative sample of schools and students. Therefore, Florida will be used to assess the validity of the state-TIMSS prediction for other states.

## Wednesday, November 15

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The analyses for this study have been completed and includes the following results:

1. Linking of NAEP to TIMSS.
2. Comparison of NAEP national standards to TIMSS international standards (this is a way of benchmarking NAEP standards).
3. Prediction of state-TIMSS results from state-NAEP results for each state.

The study will be based methodologies developed in a prior 2011 NCES funded a special research study where NAEP was linked to TIMSS using three different methods. These were item calibration, projection, and statistical moderation. ETS carried out the linking using the first two methods and AIR carried out the linking using the third method. An independent research team, HuMRRO, was also used to evaluate the study and provide advice to NCES. The URL for the study is [http://nces.ed.gov/nationsreportcard/studies/naep\\_timss/](http://nces.ed.gov/nationsreportcard/studies/naep_timss/).

The overall, finding in the 2011 study was that all three methods of linking yielded statistically equivalent results. NCES decided to use the outcomes from statistical moderation for the official report on the 2011 NAEP-TIMSS linking. The results of the 2011 NAEP-TIMSS linking study will also be available as a chapter in a special NAEP edition of the Journal of Educational and Behavioral Statistics (JEBS) that will be published next year.

### ***Restricted Content Notice***

The results will be released to the press later this year. The presentation at the FERA will, therefore, need to be on an embargoed basis, which means:

1. the presentation will be in a closed session (closed to the public/press)
2. the audience agrees that they will not disclose the findings to the press,  
and
3. no material will be distributed to the audience.

After the study is released by AIR, then copies of the study can be obtained from the AIR web site.

# Wednesday, November 15

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**Biography:** Gary Phillips is vice president and Institute Fellow at American Institutes for Research. He conducts research that advances the state-of-the-art in statistical and psychometric techniques, including work on statistical linking and international benchmarking. He received his PhD from the University of Kentucky with joint training from the College of Education and Department of Statistics. He is the author of several hundred conference paper presentations and publications in journals such as the Educational Researcher, Educational Measurement: Issues and Practice, and Applied Psychological Measurement. Dr. Phillips previously served as the Acting Commissioner of the National Center for Education Statistics (NCES), U.S. Department of Education where he was a member of the Senior Executive Service and directed the work of the National Assessment of Educational Progress (NAEP), the Trends in International Mathematics and Science Study (TIMSS), and the Program for International Student Assessment (PISA).

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**7:00 pm – 9:00 pm Horizon**

## Evening Reception

Please join us for the Wednesday night reception, sponsored by the **American Institutes for Research**. All FERA attendees are welcome to attend the Wednesday night reception. The event includes great food, cash bar, and conversation with educational researchers from across the state of Florida. The venue for the reception includes a beachfront view.

## Sponsored By:

**American Institutes for Research**

# Thursday, November 16

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REGISTRATION

**8:00 am – 5:00 pm Pre-Function**

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COFFEE BREAK BY UNIVERSITY OF SOUTH FLORIDA

**8:00 am – 8:30 am Sea Grapes**

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KEYNOTE SESSION

**8:30 am – 10:00 am Sea Oats**

## **What schools teach us about preparing educators!**

**Speaker:** Dr. Lynne Schrum  
Nova Southeastern University

**Description:** For the past three decades, I've had the incredible opportunity to help prepare future educators, enhance practitioners to further develop their art and skills, and to study how technology might improve teaching, learning, and human development. Research on the impact of technology has repeatedly shown that one teacher can accomplish a great deal; however, unless he or she has an environment that supports innovation, risk taking, and collaboration, there is danger of wearing that innovator down. Or worse, we may be encouraging that person to leave the school or the profession; unfortunately, we now face a serious national shortage of teachers and teacher candidates. Drawn from my own and others' school-based research on change, school leadership, teachers as leaders, and technology implementation, this session looks forward to how we can prepare our current and future school leaders and teachers to engage learners, celebrate their own creativity, and work collaboratively with peers and the larger community. It is an effort that is essential if we wish to continue to have a strong educational system for all.

**Biography:** Lynne Schrum, Ph.D. is a Professor in the Abraham S. Fischler College of Education at Nova Southeastern University. Previously she served as Dean of the College of Education and Human Services, West Virginia University. Her research and teaching focus on appropriate uses of information technology, preparing school leaders and teachers for the 21st century, and effective and successful online teaching and learning. She has written and edited sixteen books

# Thursday, November 16

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and numerous articles; she has been the editor of the Journal of Research on Technology in Education (JRTE) (2002-2012; 2016-2018). Schrum is also a past-president of the International Society for Technology in Education (ISTE).

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## DIVERSE APPLICATIONS OF MEASUREMENT SYSTEMS

**10:30 am – 12:00 pm Dunes 1**

### ***Civic attitudes and behavior: Measuring non-cognitive outcomes in the middle school civics classroom***

- Racine Jacques, University of Central Florida

### ***Application of multilevel structural equation modeling to the van Hiele Geometry Test***

- Yi-hsin Chen, University of South Florida
- Zhiyao Yi, University of South Florida
- Yan Wang, University of South Florida
- Denisse Thompson, University of South Florida

### ***Validating the FIT-Choice Scale within a large, diverse, southern U.S. state***

- Natalie M. Ridgewell, University of Florida
- Sherry Zhou, University of Florida
- Selcuk Dogan, University of Florida
- Ross Ridgewell, IBM

### ***How to interpret scores on locally developed ELA and mathematics tests: Translate them to FSA achievement level scales***

- Ron Dailey, Polk County Public Schools
  - David Bustos, Polk County Public Schools
  - Kathleen Dailey, Saint Lucie County Public Schools
  - Peter Zsiga, Saint Lucie County Public Schools
- 

## UTILIZING TECHNOLOGY IN EDUCATIONAL RESEARCH

**10:30 am – 12:00 pm Dunes 2**

### ***Explore elementary students' motivation from robotics to school courses***

- Zhen Xu, University of Florida
- Wenjing Luo, University of Florida

# Thursday, November 16

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## ***Taking advantage of the power of computers to protect high stakes tests***

- Dennis Maynes, Caveon, LLC
- Jennifer Miller, Caveon, LLC

## ***Investigating beginner level Chinese language learners' use of WeChat, a Chinese social media application***

- Shizhong Zhang, University of Central Florida
  - Deborah J Cordier, University of South Florida
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## QUALITATIVE RESEARCH APPLICATIONS

**10:30 am – 12:00 pm Sea Castle 1**

## ***A qualitative phenomenological investigation of "Third Culture Kids" (TCKs) regarding their emotional, academic, and social experiences while attending an international school in South Korea***

- Jared Buckner, Nova Southeastern University

## ***Project management knowledge, skills, and abilities of educational technology professionals***

- Albert D. Ritzhaupt, University of Florida
- James Kline, University of Florida
- Swapna Kumar, University of Florida

## ***Qualitative researchers: Dip a toe (Only to the quick) into the quantitative pond to net an inferential triangulation leg?***

- John D. Morris, Florida Atlantic University
  - Mary G. Lieberman, Florida Atlantic University
- 

## PANEL SESSION

**10:30 pm – 12:00 pm Sea Oats**

## **“Reading is Cool in Freedom School”: Demonstrating a Collaborative Model for Meaningful Literacy Engagement with Underserved Populations**

### **Panelists:**

- Amy Barnes, Christopher Newport University
- Shanice Chancy, Florida State University
- Julieth Diaz, Florida State University
- Meghan Grainer, Christopher Newport University

## Thursday, November 16

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- Che Yeon Ha, Florida State University
- Shira Hayes, Florida State University
- Tabia A. Matthews, Christopher Newport University
- Amanda Maxion, Florida State University
- Michael Mesa, Florida State University
- Yanyu Pan, Florida State University
- Tim Pressley, Christopher Newport University
- Serena Roberts, Florida Agricultural & Mechanical University
- Sydnee Robinson, Florida State University
- Erik Rawls, Florida State University
- Madison Smittle, Christopher Newport University

**Moderator:** Dr. Alysia D. Roehrig  
Florida State University

**Description:** This alternative session will provide multiple perspectives on Freedom Schools (FS), including potential challenges and benefits to implementation. FS are free summer camps offered to children from low income families. The camps are focused on culturally relevant pedagogy, including texts by diverse authors and a theme of making a difference in oneself and the community. Interactive demonstrations and discussion of key FS elements will be integrated with research presentations based on our 2016 camps. After demonstrating the Harambee motivational song and cheers and chants, we will introduce FS's Integrated Reading Curriculum (IRC) with findings about K-8 scholars' experiences with IRC books, as well as reading and prosocial outcomes. Next we will introduce some afternoon activities (healthy habits, writing) and associated research findings. We will end with findings regarding experiences of FS teachers, engaging participants in a debrief discussion modeled on the one FS staff conduct each afternoon.

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LUNCH ON YOUR OWN

**12:00 pm – 1:00 pm**

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# Thursday, November 16

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GRADUATE STUDENT LUNCHEON

**12:00 pm – 1:00 pm Horizon**

## **FERA Graduate Student Business Meeting Luncheon**

### **Sponsors:**

Bruce Hall, Ph.D.  
**University of South Florida**

Robert F. Dedrick, Ph.D.  
**University of South Florida**

Albert D. Ritzhaupt, Ph.D.  
**University of Florida**

### ***Graduate Student Coordinators:***

Dee Duygu Cetin-Berber, University of Florida  
Li Cheng, University of Florida

***Speaker:*** Dr. Albert D. Ritzhaupt, College of Education, University of Florida  
Dr. A. Corinne Huggins-Manley, College of Education, University of Florida

***Presentation Title:*** Preparing for the academic job search process: Things you should consider

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GRADUATE STUDENT POSTER SESSION

**1:00 pm – 5:00 pm Sea Grapes**

## **Graduate Student Poster Session**

### **Note:**

*Posters will be on display from 1:00pm to 5:00pm.  
Poster presenters will be available from 2:30pm to 3:30pm.*

### ***Teacher attrition- facilitators in urban, minority, and low income schools***

- Kesha N. Ransom, University of Central Florida

***Flipped Classroom and its impact on learner achievement and learner satisfaction in an undergraduate technology literacy course***

- Max Sommer, University of Florida

***A Study of the Effect of Public School Locales and School Minority Composition on Florida's 8th Grade Standardized Assessment Mathematics Scores***

- Olimpia Tilles, Florida Agricultural & Mechanical University

***Data literacy in education: A methodological review***

- Stephanie Green, University of South Florida

***The relationship between certification pathways and teacher effectiveness for beginning and experienced teachers in Florida***

- Eric Christesen, Florida State University

***Preventing reading loss with a culturally relevant curriculum***

- Michael P. Mesa, Florida State University
- Chelsea Funari, Florida State University
- Shawna Durtschi, Florida State University
- Alysia Roehrig, Florida State University

***How to provide teacher training for busy educators: An example of ESOL professional development module***

- Kevin Tapee, University of North Florida
- Soonhyang Kim, University of North Florida

***The effect of undergraduate retention programs on black males***

- Semline Delva, Florida Atlantic University
- Maria Vasquez, Florida Atlantic University

***An empirical investigation of the effects of Testlets on psychometric properties in the Student Fraction Questions Test***

- Xiaotong Yang, Florida State University
- Insu Paek, Florida State University
- Sicong Liu, Florida State University
- Robert C. Schoen, Florida State University

***An application of MIMIC model to detect DIF items from continuous covariate***

- Liu Jun, University of Florida

## ***Estimating the 3PL Model: What works best?***

- Anthony Raborn, University of Florida

## ***Encouraging a love of reading with a culturally relevant curriculum***

- Shawna A. Durtschi, Florida State University
- Chelsea Funari, Florida State University
- Michael Mesa, Florida State University
- Alysia D. Roehrig, Florida State University

## ***Millennials' perceptions on mentoring attributes of women leaders***

- Jacob R. Hidrowoh, Florida Atlantic University

## ***Prediction of gamer self-identity via constructs of gender and life stability: A logistic regression analysis***

- Joy A.R. Eliot, University of Central Florida
- Haiyan Bai, University of Central Florida

## ***Flipped classroom effectiveness: Student level, subject area, and study duration matters***

- Li Cheng, University of Florida

## ***Can students dialogue on (A) Canvas (LMS)?***

- Maria Migueliz Valcarlos, University of South Florida

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## **RESEARCH INTO PRE-SERVICE AND IN-SERVICE TEACHERS**

**1:00 pm – 2:30 pm Dunes 1**

## ***Job satisfaction among millennial teachers in U.S. classrooms***

- Robert Shockley, Florida Atlantic University
- John D. Morris, Florida Atlantic University
- Eliah Watlington, Florida Atlantic University
- Jacob R. Hidrowoh, Florida Atlantic University

## ***Pre-service teachers perceptions of measurement knowledge and research attitudes***

- Maria D. Vasquez-Colina, Florida Atlantic University
- Essam Abouzeida, Florida Atlantic University

## ***Continuous systems improvement in school districts and teacher development***

- Julie Kunselman, University of West Florida
- Erica Callaway, Arizona State University
- Robin Lague, Studer Education

# Thursday, November 16

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## APPLICATIONS IN ONLINE LEARNING ENVIRONMENTS

**1:00 pm – 2:30 pm Dunes 2**

### ***Examining the influence of instructor presence in online videos: An individual differences perspective***

- Jiahui Wang, University of Florida
- Pavlo Antonenko, University of Florida

### ***The influence of an anticipation guide on visual attention distribution and learning in an online professional development environment***

- Natercia Valle, University of Florida
- Jiahui Wang, University of Florida
- Pavlo Antonenko, University of Florida
- Wenjing Luo, University of Florida

### ***Exploring social presence within an online course using Twitter***

- Ellen Nodine, University of Florida
- Albert D. Ritzhaupt, University of Florida
- Pavlo Antonenko, University of Florida

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## APPLIED STATISTICS IN EDUCATIONAL RESEARCH II

**1:00 pm – 2:30 pm Sand Castle 1**

### ***Consequences of ignoring multilevel data structure on estimates of growth parameters in latent growth models***

- Gertrudes Velasquez, Florida State University
- Yanyun Yang, Florida State University

### ***Evaluation of a latent growth modeling approach to interrupted time series data with small samples***

- Yan Wang, University of South Florida
- John Ferron, University of South Florida

### ***A comparison between one-step method and three-step method for latent transition model***

- Jun Liu, University of Florida
- Yuxi Qiu, University of Florida

### ***The effect of different sizes of selection bias on the performance of propensity score matching to estimate group mean difference: A Monte Carlo Study***

- Jiwon Nam, Florida International University

# Thursday, November 16

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COFFEE BREAK BY FLORIDA ATLANTIC UNIVERSITY

**2:30 pm – 3:00 pm Sea Grapes**

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SPECIAL EDUCATION AND UNDERSERVED POPULATIONS

**2:45 pm – 4:15 pm Dunes 1**

***Special educator's views of high-stakes testing***

- Lantry L. Brockmeier, Valdosta State University
- Tonya D. Burns, Valdosta State University
- Robert B. Green, Valdosta State University
- Rudo Tsemunhu, Valdosta State University
- Alicja Rieger, Valdosta State University

***African-American leaders in the field of science: A template for overcoming obstacles***

- Wawiese Schmidt, Florida Atlantic University
- Valerie Bryan, Florida Atlantic University

***Is Greg more gifted than Jamal? The use of race in gifted nominations***

- Geoffrey West, University of South Florida

***Exploring academic success of adult learners in college based on their goal***

- Elizabeth Adadevoh, University of Central Florida

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SPECIAL TOPICS IN EDUCATIONAL RESEARCH

**2:45 pm – 4:15 pm Dunes 2**

***School grades are still complicated: Can they be simplified further?***

- Ron Dailey, Polk County Public Schools
- Kathleen Dailey, Saint Lucie County Public Schools
- Peter Zsiga, Saint Lucie County Public Schools

***Citizen science in clinical research: A new endeavor for instructional designers***

- Natercia Valle, University of Florida
- Janet Brishke, University of Florida
- Albert D. Ritzhaupt, University of Florida
- Christy Evans, University of Florida
- David Nelson, University of Florida
- Elizabeth Shenkman, University of Florida

***A theoretical analysis of extant literature and empirical analysis of extant data from one state (Florida) to reach conclusions about the appropriateness of using a state test to (1) credential aspiring educational leaders; and (2) evaluate principal-preparation programs***

- Valerie A. Storey, University of Central Florida
- Jerry Johnson, University of Central Florida

# Thursday, November 16

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## ***Roles, responsibilities and expectations in thesis and dissertation writing and supervision***

- Ying Xiong, University of Central Florida
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## PSYCHOMETRIC MODELS IN EDUCATIONAL RESEARCH

**2:45 pm – 4:15 pm Sand Castle 1**

### ***Equating and linking frameworks for diagnostic measurement***

- Ren Liu, University of Florida
- A. Corinne Huggins-Manley, University of Florida

### ***Relative diagnostic profile: An alternative to subscore reporting***

- Ren Liu, University of Florida
- Hong Qian, National Council of State Boards of Nursing
- Xiao Luo, National Council of State Boards of Nursing
- Ada Woo, ACTNext

### ***Using semi-generalized partial credit model to handle data with not-applicable responses-- An operational study***

- Sherry Zhou, University of Florida
- A. Corinne Huggins-Manley, University of Florida
- James Algina, University of Florida

### ***Parameter estimation in exploratory factor analysis for categorical data***

- Yachen Luo, Florida State University
  - Jiajing Huang, Florida State University
  - Yanyun Yang, Florida State University
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## KEYNOTE SESSION

**4:30 pm – 6:00 pm Sea Oats**

## **Computerized Adaptive and Multistage Testing: Development and Applications**

**Speaker:** Dr. Duanli Yan  
Educational Testing Service

**Description:** Computerized adaptive testing (CAT) has been a very popular method of administering questionnaires, collecting data, and on-the-fly scoring (van der Linden and Glas, 2010; Wainer, 2010, 2015). It has been used in many

large scale assessments over last decades and is currently an important field of research in psychometrics. Multistage testing (MST; Yan, von Davier, and Lewis, 2014) has been increasingly popularity in recent years, and has become an assessment design of choice for many operational programs,

In this presentation, I will provide a general overview of adaptive and multistage test's important concepts. The MST design is described, why it is needed, and how it differs from other test designs, such as linear test and CAT designs, and how it represents a middle ground between the linear and item-level adaptive tests. I will illustrate and discuss the processes of test design, assembly, routing, scoring, applications, and operational implementation considerations, as well as the most recent development on software to aid the operational implementation.

### References

Yan, Lewis, and von Davier (2014). *Computerized Multistage Testing: Theory and Applications*. Chapman and Hall.

Magis, Yan, and von Davier (in press, 2017). *Computerized Adaptive and Multistage Testing with R*. Springer.

**Biography:** Duanli Yan, PhD, is manager of data analysis and computational research for automated scoring group in the research and development division at the Educational Testing Service (ETS). She is also an adjunct professor at Rutgers University. At ETS, Dr. Yan's responsibilities include the EXADEP™ test, the TOEIC® Institutional programs, and automated scoring engines upgrade and automated scoring. She has been a statistical coordinator and a psychometrician for several operational programs and a development scientist for innovative research applications. She has been an invited speaker and training session presenter at many conferences and institutions such as the National Council of Measurement in Education (NCME), International Association for Computerized Adaptive Testing (IACAT), and International Psychometrics Society (IMPS). Dr. Yan received many awards including the 2011 ETS Presidential Award, the 2013 NCME Brenda Lyod award, the 2015 IACAT Early Career Award, and 2016 AERA Significant Contribution to Educational Measurement and Research Methodology Award.

# Thursday, November 16

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**7:00 pm – 9:00 pm Horizon**

## **Evening Reception**

Please join us for the Thursday night reception, sponsored by the **Florida Educational Research Association**. All FERA attendees are welcome to attend the Thursday night reception. The event includes great food, cash bar, and conversation with educational researchers from across the state of Florida. The venue for the reception includes a beachfront view.

## **Sponsored By:**

**Florida Educational Research Association**

# Friday, November 17

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REGISTRATION

**8:00 am – 11:00 am Pre-Function**

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COFFEE BREAK BY UNIVERSITY OF CENTRAL FLORIDA

**8:00 am – 8:30 am Sea Grapes**

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KEYNOTE SESSION

**8:30 am – 10:00 am Sea Oats**

## **Complementing Educational Research Generated by University Faculty and Policy-Makers with Educational Research Generated by Teachers in Schools: A New Era for FERA**

**Speaker:** Dr. Nancy Fichtman Dana  
University of Florida

**Description:** To mark the debut of FERA's new Teacher Inquiry Strand, Dr. Dana will discuss the ways teacher research differs from but complements research done at universities, with a particular focus on educational research conducted for the purpose of generating evidenced-based practices. After defining and discussing evidenced-based practices, the university-based research methodologies that produce them, and both their importance and limitations, Dr. Dana will introduce the construct of practice-based evidence, generated through the process of teacher inquiry. Finally, Dr. Dana will identify specific actions FERA members can take to help teachers connect evidenced-based practice with practice-based evidence, melding research into the reality of their everyday classroom lives.

**Biography:** Nancy Fichtman Dana is Professor of Education in the School of Teaching and Learning at the University of Florida. Her research focuses on teacher and administrator professional development with a particular focus on practitioner inquiry. Since beginning her career in higher education in 1991, she has worked with numerous schools and districts across the United States and abroad to craft professional development programs of inquiry as well as conducted extensive research on the process. She has published 10 books and over 80 articles and book chapters on the topic of practitioner inquiry.

# Friday, November 17

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Dr. Dana has received many honors including the Association of Teacher Educator's Distinguished Research in Teacher Education Award and the National Staff Development Council (now Learning Forward) Book of the Year Award.

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## ACTION RESEARCH AND TEACHER NEEDS

**10:15 am – 11:45 am Dunes 1**

### ***Action research in a large school district: What supports do teachers need?***

- Peggy Jones, Pasco County Schools
- Helen Austin, Pasco County Schools
- Lori Cline, Pasco County Schools
- Katherine Hayes, Pasco County Schools
- Julie Kaufmann, Pasco County Schools
- Martha Babiarz, Pasco County Schools
- Shelley Carino, Pasco County Schools

### ***The effects of high-stakes testing on teachers***

- Jatiel Infanzón, Indian River County School District

### ***Improving pedagogy through inquiry: Evaluation of a promising structured teacher inquiry project***

- Samantha Hooper, Hillsborough County Public Schools

### ***"Opportunity Gaps": Analyzing a teacher preparation program to discover places to embed gifted education training***

- Steve Haberlin, University of South Florida
- 

## ACTION RESEARCH IN THE CONTENT AREAS

**10:15 am – 11:45 am Dunes 2**

### ***Motivating high school students using small-group instruction and reassessment in geometry***

- Kristin M. Weller, P. K. Yonge Developmental Research School

### ***Commandeering Commercial, Off-the-Shelf (COTS) video games for social studies instruction***

- Joshua M. Patterson, University of South Florida
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# Friday, November 17

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## ***Rethinking tiered instructional support and reassessment within a detracked, standards-based biology classroom***

- Michelina MacDonald, P. K. Yonge Developmental Research School

## ***Why music matters: How participation in a professional learning community can expand the role of music educators***

- Melanie Harris, P. K. Yonge Developmental Research School
- 

## **ACTION RESEARCH WITH A FOCUS ON THE STUDENT**

**10:15 am – 11:45 am Sand Castle 1**

## ***How can I support and increase self-efficacy of a student through an academic challenge?***

- Caroline C. Barba, P. K. Yonge Developmental Research School

## ***Student-led action research for the primary grades: Growing students into civic minded inquisitive researchers***

- Michael Moss, Pinellas County School District
- Katherine Martin, Pinellas County School District
- Carmela Fowler, Pinellas County School District

## ***The effect of rubrics, self-assessment, and self-reflection on student motivation***

- Clint Kovach, P. K. Yonge Developmental Research School
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# Friday, November 17

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FERA LUNCHEON

**12:00 pm – 1:30 pm Horizons**

## **Annual Business Meeting and Award Luncheon**

Please join us for our annual business meeting and awards luncheon. The luncheon is sponsored by **Performance Matters**. During the luncheon, we announce the winners to the Best Paper Award and Educational Researcher of the Year award. Additionally, the new nominations for leadership are announced and voted on.

**Sponsored By:**

**Performance Matters**

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FERA BOARD MEETING

**2:00 pm – 4:00 pm Executive Boardroom**

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## 2017 FERA Leadership

Board Members		
Office	Member	Affiliation
President	Albert Ritzhaupt	University of Florida
President-Elect	Ted Dwyer	Hillsborough County Schools
Past President	Donna Lee Buckner	Lakeland Institute for Learning
Treasurer	Jennifer Wolgemuth	University of South Florida
Secretary	Kathleen Dailey	Port St. Lucie County Schools
Director	Brandon Craig	Polk County Schools
Director	Peggy Jones	Pasco County Schools
Director	Anne C. Manley	University of Florida
Standing Committee Members		
Professional Development	Wendy Dickinson	Hillsborough County Schools
Membership	Bonnie Swan	University of Central Florida
Publications/Newsletter	Donna Lee Buckner	Lakeland Institute for Learning
Nominating	Lee Baldwin	University of Central Florida
FERA Journal	Albert Ritzhaupt	University of Florida
Russel Kropp Award	Kathleen Dailey	Port St. Lucie County Schools
Awards/Recognition	Ron Dailey	Hillsborough County Schools
Sponsors/ Vendors	Donna Buckner/ Sam Whitten	Lakeland Institute for Learning/ Polk County Schools
Annual Committee Members		
Graduate Student Coordinators	Dee Duygu Cetin Berber/Li Cheng	University of Florida/ University of Florida
Local Arrangements Chair	Brandon Craig	Polk County Schools
Paper Proposal Review	Anne C. Manley	University of Florida
Audit	John Ferron/ Robert Dedrick	University of South Florida
Distinguished Paper Award	Robert Dedrick	University of South Florida
Educational Researcher of the Year	Robert Dedrick	University of South Florida
Program	Ted Dwyer	Hillsborough County Schools
Evaluation	Eun-sook Kim/ Insu Paek	University of South Florida Florida State University
Webmaster	Albert Ritzhaupt	University of Florida

## Paper Proposal Reviewers

<b>Name</b>	<b>Affiliation</b>
Abdullah Alghamdi	Florida State University
Amanda Mohn	University of south Florida
Anabelle Andon	Florida International University
Angel Teron	Lake County
Angela Hooser	University of South Florida
Antonio Losavio	University of Central Florida
Brenda Bartholomew	Consultant to Florida school Districts
Bruce W. Hall	University of South Florida
Burcu Izci	Florida State University
Carole Beal	University of Florida
Christopher Thompson	Texas A&M University
Dan Morris	Florida Atlantic University
Dee Duygu	University of Florida
Donna Buckner	Lakeland Institute for Learning
Dr. Wade Smith	Walden University
Dr. Wendy Dickinson	University of South Florida
Erhan Selcuk Haciomeroglu	University of Central Florida
Francisco Jimenez	Shadow Health, Inc
Gertrudes Velasquez	Florida State University
Ghazwan Iutfi	Florida A&M University
Helen Davis Martin	Lee County Schools
Hilal Peker	Florida State University
Hulya Yurekli	Yildiz Technical University
Jennifer Knutowski	Collier County Schools
Jennifer Wolgemuth	University of South Florida
Jessica Racine Jacques	University of Central Florida
Jiahui Wang	University of Florida
Jilliane McCardle	Alachua County Public Schools
John Carr	Brevard County Schools
John Ferron	University of South Florida
Joonmo Yun	Florida State University
Kimberly Allison	University of South Florida
Kyle Perkins	Florida International University
Lantry Brockmeier	Valdosta State University
Lavette Spearman Hunter	Miami-Dade County Public Schools
Leia K. Cain	University of South Florida
Liu Jun	University of Florida
MarĀa D. VĀjsquez	Florida Atlantic University
Martha L Stewart	University of Central Florida
Mary G. Lieberman	Florida Atlantic University
Mingming Zhou	University of Central Florida

Patti Simmons	Hillsborough County Public Schools
Peijuan Cao	University of Florida
Peter Zsiga	St Lucie Schools
Prisca Rodriguez	DC Public Schools
Raquel Diaz	University of Florida Lastinger Center for Learning
Rebekah Cordova	University of Florida Lastinger Center for Learning
Ren Liu	University of Florida
Ron Dailey	Polk County Public Schools
Russell Almond	Florida State University
Seyfullah Tingir	Florida State University
Shane Fairbairn	Northeast Florida Educational Consortium
Shizhong Zhang	University of Central Florida
Smriti Ingrole	Florida State University
Theodore Dwyer	Pittsburgh Public Schools
Valerie A. Storey	University of Central Florida
Walter Chason	University of South Florida
Walter Leite	University of Florida
Xinya Liang	University of Arkansas
Xuezi Zhang	University of Florida
Yanyun Yang	Florida State University
Yi-Hsin Chen	University of South Florida
Yuxi Qiu	University of Florida
Zhiyao Yi	University of South Florida

## Paper Proposal First Authors

Author Name	Email Address
Abeer Alamri	<a href="mailto:abeeralamri@mail.usf.edu">abeeralamri@mail.usf.edu</a>
Albert D. Ritzhaupt	<a href="mailto:aritzhaupt@gmail.com">aritzhaupt@gmail.com</a>
Alysia D. Roehrig	<a href="mailto:aroehrig@fsu.edu">aroehrig@fsu.edu</a>
Anthony Raborn	<a href="mailto:lordmaxwell@ufl.edu">lordmaxwell@ufl.edu</a>
Caroline C. Barba	<a href="mailto:cbarba@pky.ufl.edu">cbarba@pky.ufl.edu</a>
Clint Kovach	<a href="mailto:ckovach@pky.ufl.edu">ckovach@pky.ufl.edu</a>
Dee Duygu Cetin-Berber	<a href="mailto:dcetinberber@ufl.edu">dcetinberber@ufl.edu</a>
Dennis Maynes	<a href="mailto:dennis.maynes@caveon.com">dennis.maynes@caveon.com</a>
Melanie Harris	<a href="mailto:mharris@pky.ufl.edu">mharris@pky.ufl.edu</a>
Elizabeth Adadevoh	<a href="mailto:Delabet2@gmail.com">Delabet2@gmail.com</a>
Erhan Selcuk Haciomeroglu	<a href="mailto:Erhan.Haciomeroglu@ucf.edu">Erhan.Haciomeroglu@ucf.edu</a>
Geoffrey West	<a href="mailto:gwest@mail.usf.edu">gwest@mail.usf.edu</a>
Gertrudes Velasquez	<a href="mailto:gv10c@my.fsu.edu">gv10c@my.fsu.edu</a>
Halil Ibrahim Sari	<a href="mailto:hisari@kilis.edu.tr">hisari@kilis.edu.tr</a>
Hilal Peker	<a href="mailto:hpeker@fsu.edu">hpeker@fsu.edu</a>
Jared Bucker	<a href="mailto:jared@nova.edu">jared@nova.edu</a>
Jatviel Infanzón	<a href="mailto:Jatviel@hotmail.com">Jatviel@hotmail.com</a>
Jiahui Wang	<a href="mailto:jwang01@ufl.edu">jwang01@ufl.edu</a>
Jiajing Huang	<a href="mailto:jh11x@my.fsu.edu">jh11x@my.fsu.edu</a>
Jiwon Nam	<a href="mailto:anam@fsu.edu">anam@fsu.edu</a>
John D. Morris	<a href="mailto:mlieberm@fau.edu">mlieberm@fau.edu</a>
Joshua Michael Patterson	<a href="mailto:joshuapatter@mail.usf.edu">joshuapatter@mail.usf.edu</a>
Julie Kunselman	<a href="mailto:Julie.Kunselman@StuderEducation.com">Julie.Kunselman@StuderEducation.com</a>
Jun Liu	<a href="mailto:jun123456@ufl.edu">jun123456@ufl.edu</a>
Ke Cheng	<a href="mailto:kecheng@mail.usf.edu">kecheng@mail.usf.edu</a>
Kristin M. Weller	<a href="mailto:kweller@pky.ufl.edu">kweller@pky.ufl.edu</a>
Lantry L. Brockmeier	<a href="mailto:lantry.brockmeier@comcast.net">lantry.brockmeier@comcast.net</a>
Li Cheng	<a href="mailto:licheng@ufl.edu">licheng@ufl.edu</a>
Maria D. Vasquez-Colina	<a href="mailto:Mvasque3@fau.edu">Mvasque3@fau.edu</a>
Mary G. Lieberman	<a href="mailto:mlieberm@fau.edu">mlieberm@fau.edu</a>
Michael Moss	<a href="mailto:moss@pcsb.org">moss@pcsb.org</a>
Micheline MacDonald	<a href="mailto:mmacdonald@pky.ufl.edu">mmacdonald@pky.ufl.edu</a>
Nan Wang	<a href="mailto:nw13c@my.fsu.edu">nw13c@my.fsu.edu</a>
Natalie M. Ridgewell	<a href="mailto:nkr@ufl.edu">nkr@ufl.edu</a>
Natercia Valle	<a href="mailto:nvalle@ufl.edu">nvalle@ufl.edu</a>
Novell Tani	<a href="mailto:novell.tani@famu.edu">novell.tani@famu.edu</a>
Peggy Jones	<a href="mailto:pejones@pasco.k12.fl.us">pejones@pasco.k12.fl.us</a>
Racine Jacques	<a href="mailto:racine.jacques@ucf.edu">racine.jacques@ucf.edu</a>
Ren Liu	<a href="mailto:liurenking@ufl.edu">liurenking@ufl.edu</a>
Robert Shockley	<a href="mailto:SHOCKLEY@fau.edu">SHOCKLEY@fau.edu</a>
Ronald Dailey	<a href="mailto:ronald.dailey@polk-fl.net">ronald.dailey@polk-fl.net</a>

Samantha Hooper  
Sherry Zhou  
Shizhong Zhang  
Steve Haberlin  
Valerie A. Storey  
Walter L. Leite  
Wawaise Schmidt  
Yachen Luo  
Yan Wang  
Yi-hsin Chen  
Ying Xiong  
Youngju Kang  
Zhen Xu

[Samantha.Hooper@sdhc.k12.fl.us](mailto:Samantha.Hooper@sdhc.k12.fl.us)  
[sherryzhou0201@ufl.edu](mailto:sherryzhou0201@ufl.edu)  
[shizhong.zhang@ucf.edu](mailto:shizhong.zhang@ucf.edu)  
[shaberli@mailusf.edu](mailto:shaberli@mailusf.edu)  
[Valerie.storey@ucf.edu](mailto:Valerie.storey@ucf.edu)  
[Walter.Leite@coe.ufl.edu](mailto:Walter.Leite@coe.ufl.edu)  
[wschmid6@fau.edu](mailto:wschmid6@fau.edu)  
[yl15j@my.fsu.edu](mailto:yl15j@my.fsu.edu)  
[yanw@mail.usf.edu](mailto:yanw@mail.usf.edu)  
[ychen5@usf.edu](mailto:ychen5@usf.edu)  
[ying.xiong@ucf.edu](mailto:ying.xiong@ucf.edu)  
[youngju.kang@gmail.com](mailto:youngju.kang@gmail.com)  
[xuzhen0805@ufl.edu](mailto:xuzhen0805@ufl.edu)

## Graduate Student Volunteers

Full Name	Affiliation
Amanda Taylor	University of Florida
Chelsea Funari	Florida State University
Dee Duygu Cetin-Berber	University of Florida
Elizabeth Adadevoh	University of Central Florida
Feiya Luo	University of Florida
Ginger Chen	University of Florida
Jacob Hidrowoh	Florida Atlantic University
James Rigney	University of Florida
Jiahui Wang	University of Florida
Li Cheng	University of Florida
Maria Migueliz	University of South Florida
Max Sommer	University of Florida
Michael Mesa	Florida State University
Olimpia Tilles	Florida A&M University
Semline Delva	Florida Atlantic University
Shawna Durtschi	Florida State University
Shizhong Zhang	University of Central Florida
Tara Ferland	University of Florida
Xiaotong Yang	Florida State University
Ying Xiong	University of Central Florida
Zhen Xu	University of Florida

## FERA Past Presidents

1958-59	Russell Kropp	1988-89	Constance Bergquist
1959-60	Walter Durost	1989-90	Jackson K. McAfee
1960-61	Robert N. Willis	1990-91	Lou Carey
1961-62	John Demming	1991-92	Jayne Hartman
1962-63	Annie Ward	1992-93	Cornelia S. Orr
1963-64	Howard W. Stoker	1993-94	Marc Baron
1964-65	Karen A. Strattan	1994-95	Janet B. Hanson
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1966-67	Richard R. Burnette	1996-97	Dianne Buhr
1967-68	Edward Caldwell	1997-98	Lee Baldwin
1968-69	Fred Stuart	1998-99	Dan Morris
1969-70	John E. Dobbin	1999-00	Cynthia Parshall
1970-71	Vynce A. Hines	2000-01	Brenda Bartholomew
1971-72	Jacob Beard	2001-02	Richard Tate
1972-73	Willard Nelson	2002-03	Jerry Levitt
1973-74	Janice Smith	2003-04	Bruce Hall
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1975-76	Rick Nations	2005-06	David Miller
1976-77	Richard Jaeger	2006-07	Natalie Roca
1978-79	James Swanson	2007-08	Aki Kamata
1979-80	Paul Gallagher	2008-09	John Ferron
1980	Don Lambert *	2009-10	Wendy Dickinson
1980-81	Annie Ward*	2010-11	Frank Gilbert
1981-82	John Hildebrand	2011-12	Bonnie Swan
1982-83	Russell Kropp	2012-13	Sam Whitten
1983-84	Jean Jolly	2013-14	Salih Binici
1984-85	Chuck Dziuban	2014-15	Betsy Becker
1985-86	Bill Piotrowski	2015-16	Donna Buckner
1986-87	Bruce Hall	2016-17	Albert D. Ritzhaupt
1987-88	Patricia W. Kees	2017-18	Ted Dwyer

\*Don Lambert was installed in January 1980. Annie Ward was installed in November 1980.

## Honorary Members of FERA

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William H. Angoff	1975	Rick Nations	1997
George Loiselle	1976	Jack McAfee	1998
Hazen Curtis	1976	Jim Swanson	2000
Vynce Hines	1981	Bill Castine	2001
John Espey	1981	Chuck Dzuiban	2005
Walter Durost	1981	Bruce Hall	2007
Howard Stoker	1983	John Hilderbrand	2012
Annie Ward	1984	Brenda Bartholomew	2014