

## **Max Sommer, Ph.D.**

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### **EDUCATION**

#### **Ph.D. in Curriculum and Instruction: Educational Technology Research and Evaluation Methodology Minor**

University of Florida

Graduated: May 2022

Dissertation Title: “A Metacognitive Approach to Foster the Development of Credibility Assessment Skills in Undergraduate Learners”

Major Professor: Albert D. Ritzhaupt

#### **Master of Arts in Education: Educational Technology**

University of Florida

Graduated: December 2017

#### **Bachelor of Arts in Geography**

#### **UFTeach Minor in Secondary Science Education**

University of Florida

Graduated: December 2015

### **PUBLICATIONS**

- 2022** Sommer, M., Kohnen, A. M., Hampton, J., & Ritzhaupt, A. D. (in press). Instructional elements in an online information literacy Open Educational Resource (OER) and their influence on learner achievement, satisfaction, and self-efficacy. *Journal of Information Literacy*.
- 2021** Ritzhaupt, A. D., Huang, R., Sommer, M., Zhu, J. W., Stephen, A., Valle, N., Hampton, J., & Li, J. W. (2021). A meta-analysis on the influence of gamification in formal educational settings on affective and behavioral outcomes. *Educational Technology Research and Development*, <https://doi.org/10.1007/s11423-021-10036-1>
- 2021** Valle, N., Antonenko, P., Valle, D., Sommer, M., Huggins-Manley, C. A., Dawson, K., Kim, D., Baiser, B. (2021). Predict or describe? How learning analytics dashboard design influences motivation and statistics anxiety in an online statistics course. *Educational Technology Research and Development*, 69, 1405–1431. <https://doi.org/10.1007/s11423-021-09998-z>

- 2021 Sommer, M.,** Kohnen, A. M., Ritzhaupt, A.D., & Hampton, J. (2021). Investigation of the validity evidence of the Information Literacy Self-Efficacy Scale (ILSES) among undergraduate students. *Communications in Information Literacy, 15*(1), 1-23. <https://pdxscholar.library.pdx.edu/comminfolit/vol15/iss1/1/>
- 2020 Ritzhaupt, A. D.,** Valle, N., & **Sommer, M.** (2020). Design, development, and evaluation of an online statistics course for educational technology doctoral students: A design and development case. *Journal of Formative Design in Learning.* <https://doi.org/10.1007/s41686-020-00051-5>
- 2020 Huang, R.,** Ritzhaupt, A. D., **Sommer, M.,** Zhu, J. W., Stephen, A., Valle, N., Hampton, J.,& Li, J. W. (2020). The impact of gamification in educational settings on student learning outcomes: A meta-analysis. *Educational Technology Research and Development, 68,* 1875– 1901. <https://doi.org/10.1007%2Fs11423-020-09807-z>
- 2019 Sommer, M.,** Ritzhaupt, A. D., Muller, K. E., & Glueck, D. H. (2019). Transformation of a face-to-face workshop into a massive open online course (MOOC): A design and development case. *Journal of Formative Design in Learning, 3,* 97-110. <https://doi.org/10.1007/s41686-019-00037-y>
- 2018 Sommer, M. &** Ritzhaupt, A. D. (2018). Impact of flipped classroom on learner achievement and satisfaction in an undergraduate technology literacy course. *Journal of Information Technology Education: Research, 17,* 159-182. <https://doi.org/10.28945/4059>

## **CONFERENCE PRESENTATIONS**

- 2022 Sommer, M.,** Ritzhaupt, A. D., & Kohnen, A. M. Designing and Developing a Credibility Assessment Online Module Emphasizing Metacognitive Strategies and Expert Demonstration. Paper presented at the American Educational Research Association conference in San Diego, California.
- 2021 Sommer, M.** Metacognition Over Misinformation: A Systematic Review of the Intersection of Metacognition and Online Credibility Assessment Paper presented at the Florida Educational Research Association conference in Tampa, Florida.
- 2021 Sommer, M.,** Hampton, J., Kohnen, A. M., & Ritzhaupt, A. D. Instructional Elements in an Information Literacy E-Book and their Influence on Learner Outcomes. Paper presented at the Florida Educational Research Association conference in Tampa, Florida.
- 2021 Huang, R.,** Ritzhaupt, A.D., **Sommer, M.,** Zhu, J., Stephen, A., Valle, N., Hampton, J., & Li, J. The Influence of Gamification on Affective and Behavioral Outcomes in Educational Settings: A Meta-analysis. Paper presented at the Florida Educational Research Association conference in Tampa, Florida.

- 2021** Wang, X., Huang, R., **Sommer, M.**, Shidfar, P., Rehman, M. S., Martin, F., & Ritzhaupt, A. D. A Meta-Analysis of How Adaptive Learning Impacts Student Learning Performance. Paper presented at the Florida Educational Research Association conference in Tampa, Florida.
- 2021** **Sommer, M.** Metacognition Over Misinformation: A Systematic Review of the Intersection of Metacognition and Online Credibility Assessment. Paper presented at the Association for Educational Communications and Technology conference in Chicago, Illinois.
- 2021** **Sommer, M.**, Hampton, J., Kohnen, A. M., & Ritzhaupt, A. D. Instructional Elements in an Information Literacy E-Book and their Influence on Learner Outcomes. Paper presented at the Association for Educational Communications and Technology conference in Chicago, Illinois.
- 2021** Wang, X., Huang, R., **Sommer, M.**, Shidfar, P., Rehman, M. S., Martin, F., & Ritzhaupt, A. D. The Impact of Adaptive Learning on Student Educational Outcomes: A Meta-Analysis. Paper presented at the Association for Educational Communications and Technology conference in Chicago, Illinois.
- 2021** **Sommer, M.**, Hampton, J., Kohnen, A. M., & Ritzhaupt, A. D. Instructional Elements in an Information Literacy E-Book and their Influence on Learner Outcomes. Paper presented at the American Educational Research Association conference (held online). *This paper was nominated for the SIG IT Best Student Paper award at this conference.*
- 2021** Huang, R., Ritzhaupt, A. D., **Sommer, M.**, Zhu, J., Stephen, A., Valle, N., Hampton, J., & Li, J. The Impact of Gamification in Educational Settings on Student Learning Outcomes: A Meta-Analysis. Paper presented at the American Educational Research Association conference (held online). *This paper won the SIG IT Best Student Paper award at this conference.*
- 2021** Huang, R., Ritzhaupt, A. D., **Sommer, M.**, Zhu, J., Stephen, A., Valle, N., Hampton, J., & Li, J. A Meta-Analysis on the Influence of Gamification in Formal Education on Affective and Behavioral Outcomes. Paper presented at the American Educational Research Association conference (held online).
- 2020** Ritzhaupt, A. D., Valle, N., & **Sommer, M.** Design, Development, and Evaluation of an Online Statistics Course for Educational Technology Doctoral Students. Paper presented at the Association for Educational Communications and Technology conference (held online).
- 2020** **Sommer, M.** Design of Online or Blended Information Literacy Instruction in Higher Education: A Systematic Review. Poster presented at the Association for Educational Communications and Technology conference (held online).

- 2020** Ritzhaupt, A. D., Huang, R., **Sommer, M.**, Zhu, J., Stephen, A., Valle, N., Hampton, J., & Li, J. Effects of Gamification in Educational Settings on Affective and Behavioral Learning Outcomes: A Meta-Analysis. Paper presented at the Association for Educational Communications and Technology conference (held online).
- 2020** Hampton, J., **Sommer, M.**, Li, J., Ritzhaupt, A. D., Dawson, K., Antonenko, P. & Tsai, C. An Exploration of K–12 Students' Conceptions of Learning with Technology: A Drawing Analysis. Poster selected to be presented at the American Educational Research Association conference in San Francisco, California (conference canceled due to Covid).
- 2020** Valle, N., Antonenko, P., Valle, D. & **Sommer, M.** How the Design of Learning Analytics Dashboards Influences Motivation and Statistics Anxiety. Paper selected to be presented at the American Educational Research Association conference in San Francisco, California (conference canceled due to Covid).
- 2019** Huang, R., Ritzhaupt, A.D., **Sommer, M.**, Zhu, J., Stephen, A., Valle, N., Hampton, J., & Li, J. The Impact of Gamification in Educational Settings on Student Learning Outcomes. Paper presented at the Florida Educational Research Association conference in St. Petersburg, Florida.
- 2019** Hampton, J., **Sommer, M.**, Li, J., Ritzhaupt, A. D., Dawson, K., Antonenko, P., & Tsai, C. C. An Exploration of K-12 Students' Conceptions of Learning with Technology: A drawing analysis. Paper presented at the Florida Educational Research Association conference in St. Petersburg, Florida.
- 2019** **Sommer, M.**, Ritzhaupt, A.D., Muller, K. E., & Glueck, D.H. Transformation of a face-to-face workshop into a Massive Open Online Course (MOOC): A design and development case. Paper presented at the Association for Educational Communications and Technology conference in Las Vegas, Nevada.
- 2019** Hampton, J., **Sommer, M.**, Li, J., Ritzhaupt, A. D., Dawson, K., Antonenko, P., & Tsai, C. C. An Exploration of K-12 Students' Conceptions of Learning with Technology: A drawing analysis. Poster presented at the Association for Educational Communications and Technology conference in Las Vegas, Nevada.
- 2019** Huang, R., Ritzhaupt, A.D., **Sommer, M.**, Zhu, J., Stephen, A., Valle, N., Hampton, J., & Li, J. The Impact of Gamification in Educational Settings on Student Learning Outcomes. Paper presented at the Association for Educational Communications and Technology conference in Las Vegas, Nevada.
- 2019** Valle, N., Antonenko, P., Valle, D., & **Sommer, M.** The Effects of Predictive and Descriptive Dashboards on Learners' Perception and Mastery Learning Approach. Paper presented at the Association for Educational Communications and Technology conference in Las Vegas, Nevada.

- 2018 Sommer, M., & Ritzhaupt, A D.** Impact of flipped classroom on learner achievement and satisfaction in an undergraduate technology literacy course. Paper presented at the Association for Educational Communications and Technology conference in Kansas City, Missouri.
- 2018 Sommer, M., Ritzhaupt, A.D., Muller, K. E., & Glueck, D.H.** Transformation of a face-to-face workshop into a Massive Open Online Course (MOOC): A design and development case. Paper presented at the Florida Educational Research Association conference in St. Petersburg, Florida.
- 2017 Sommer, M., & Ritzhaupt, A D.** Impact of flipped classroom on learner achievement and satisfaction in an undergraduate technology literacy course. Poster presented at the Florida Educational Research Association conference in Cocoa Beach, Florida. *This poster won the Best Overall Graduate Student Poster Award.*

## **EXPERIENCE**

### **2022-Present Learning Designer**

Shadow Health at Elsevier, Gainesville, Florida

### **2022 Graduate Instructional Assistant**

Seminar in Educational Media, University of Florida

### **2021-2022 Graduate Assistant: Researcher**

Power and Sample Size Analysis for Multilevel and Longitudinal Studies - Massive Open Online Course, Coursera, University of Florida

### **2021-2022 Graduate Assistant: College of Education Faculty Policy Council**

Department of Education Dean's Office, University of Florida

### **2018-2021 Graduate Assistant: Teacher (Instructor of Record)**

Introduction to Educational Technology, University of Florida

Overall Instructor Evaluation Scores (out of 5):

-Fall 2018: 4.92

-Spring 2019: 4.89

-Fall 2019: 4.84

-Spring 2020: 4.89

-Fall 2020: 4.89

-Spring 2021: 4.94

-Fall 2021: 4.85

### **2021 Graduate Assistant: Instructional Designer**

Power and Sample Size Analysis for Multilevel and Longitudinal Studies - Massive Open Online Course, Coursera, University of Florida

- 2021 Guest Instructor: Summer Bridge Program**  
Online Information Literacy for Underserved Students Entering Community College,  
Santa Fe Community College
- 2020 Graduate Assistant: Researcher**  
Information Literacy Scale Validation, University of Florida
- 2020 Graduate Assistant: Instructional Designer**  
Research Design in Educational Technology, University of Florida
- 2020 Graduate Assistant: Instructional Designer**  
Quantitative Methods in Educational Technology Research, University of Florida
- 2019 Graduate Assistant: Instructional Designer**  
Foundations and Research in Curriculum and Instruction, University of Florida
- 2019 Graduate Assistant: Instructional Designer**  
Quantitative Methods in Educational Technology Research, University of Florida
- 2018-2019 Graduate Assistant: Instructional Designer/Researcher**  
Power and Sample Size Analysis for Multilevel and Longitudinal Studies - Massive Open  
Online Course, Coursera, University of Florida
- 2014, 2016-2017 Education Assistant**  
Summer Science Camps, K-5<sup>th</sup> Grade, Florida Museum of Natural History
- 2015 Intern Instructor**  
Physical Science/ESOL, 9<sup>th</sup> Grade, Gainesville High School

## **HONORS AND AWARDS**

- 2022 Outstanding Graduate Student Research Award**  
Selected by the University of Florida College of Education's Lectures, Seminars &  
Awards Committee based on strong evidence of scholarship; evidence of publications,  
professional presentations and professional development activities in support of the  
College of Education's mission; and evidence of service and leadership to the college,  
university and community.
- 2021 Special Interest Group: Instructional Technology Best Paper Award**  
"The Impact of Gamification in Educational Settings on Student Learning Outcomes: A  
Meta-Analysis"  
Selected by peer researchers participating in the 2021 American Educational Research  
Association conference (held online). Author list: Ritzhaupt, A. D., Huang, R., **Sommer,**  
**M.**, Zhu, J., Stephen, A., Valle, N., Hampton, J., & Li, J.

- 2021 Nominated: Special Interest Group: Instructional Technology Best Paper Award**  
“Instructional Elements in an Information Literacy E-Book and their Influence on Learner Outcomes”  
Nominated at the American Educational Research Association conference (held online).  
Author list: **Sommer, M.**, Hampton, J., Kohnen, A. M., & Ritzhaupt, A. D.
- 2021 Nominated: Graduate Student Teaching Award**  
University of Florida
- 2018 Nominated: Graduate Student Teaching Award**  
University of Florida
- 2017 Best Overall Graduate Student Poster**  
“Flipped Classroom and its Impact on Learner Achievement and Learner Satisfaction in an Undergraduate Technology Literacy Course”  
Selected by researchers attending the 2017 Florida Educational Research Association Conference Annual Meeting, Cocoa Beach, Florida. Author list: **Sommer, M.** & Ritzhaupt, A. D.

### **TRAVEL AWARDS**

- 2020 Award of \$250, School of Teaching and Learning Travel Award**  
University of Florida
- 2019 Award of \$200, School of Teaching and Learning Travel Award**  
University of Florida
- 2019 Award of \$265, School of Teaching and Learning Travel Award**  
University of Florida
- 2018 Award of \$200, School of Teaching and Learning Travel Award**  
University of Florida
- 2018 Award of \$265, School of Teaching and Learning Travel Award**  
University of Florida

### **WORKSHOP FACILITATION**

- 2018 Ritzhaupt, A. D. & Sommer, M.** “Creating interactive websites using WordPress in an authentic context.”  
Workshop presented at the Association for Educational Communications and Technology conference in Kansas City, Missouri.

## **PROFESSIONAL ASSOCIATIONS**

**2018-Present** Association for Educational Communications and Technology (Member)

**2018-Present** American Educational Research Association (Member)

**2018-Present** Florida Educational Research Association (Member)

## **SERVICE**

**2021-2022 Reviewer**  
Journal of Computing in Higher Education

**2018-2022 Reviewer**  
Journal of Research on Technology in Education

**2020-2021 President**  
Student Alliance of Graduates in Education, University of Florida

**2019-2020 Graduate School Council Representative**  
School of Teaching and Learning, University of Florida

**2020 Job Search Host**  
Technology, Learning, and Education Associate/Full Professor Candidate

**2019 Reviewer**  
Florida Educational Research Association Conference, St. Petersburg, Florida

**2017-2019 Graduate Student Coordinator**  
Florida Educational Research Association

**2018 Search Committee Member**  
Technology, Learning, and Education Associate/Full Professor

**2014-2017 Boys' Basketball Coach**  
Gainesville High School

**2014-2015 Vice President**  
UF Teach Student Organization