

# Nicola L. Ritter

## CURRICULUM VITAE

Current as of February, 2019

### Instructional Assistant Professor

Department of Veterinary Integrative Biosciences  
College of Veterinary Medicine and Biomedical Sciences  
Texas A&M University, College Station, TX 77843-4458

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## EDUCATION

### Ph.D., Educational Psychology, Concentration: Learning Science

Texas A&M University, College Station, TX, 2014

### M.Ed., Curriculum and Instruction

Texas A&M University, College Station, TX, 2009

### B.S., Interdisciplinary Studies

Texas A&M University, College Station, TX, 2005

## POSITIONS

### 2018 – PRESENT | Director, The Center for Educational Technologies

Department of Veterinary Integrative Biosciences, College of Veterinary Medicine and Biomedical Sciences,  
Texas A&M University

### 2016 – PRESENT | Instructional Assistant Professor, The Center for Educational Technologies

Department of Veterinary Integrative Biosciences, College of Veterinary Medicine and Biomedical Sciences,  
Texas A&M University

### 2014 | Instructional Design Specialist/Virtual Instructor Certificate Program Coordinator

College of Education & Human Development, Texas A&M University

### 2014 | INSTRUCTOR

Virtual Instructor Certification Program, College of Education & Human Development, Texas A&M University

## GRANTS

### 2018 | Adaptive learning lessons on critical thinking to integrate veterinary disciplines

USDA National Institute of Food and Agriculture Role: PI Submitted: \$749,760

### 2019 | Encouraging High School Students' Interest in STEM through the Creation of Instructional Modules for Teachers through Collaboration among University Faculty and High School Teacher

National Science Foundation Role: Col Submitted: \$2,999,945

### 2019 | Collaborative Research: Emerging Technologies to Scale-up Teaching and Assessing Critical Thinking Skills in STEM

National Science Foundation Role: PI Submitted: \$749,998

**2018 | Breaking Through-Fast Tracking Research into Commercialization**

National Institute of Health Role: Col Submitted: \$325,000

**2018 | Where Success Begins: Leveraging Learning Analytics to Predict Student Program Success During the Pre-Admissions Process**

Texas A&M University PESCA Program Role: PI Awarded: \$25,000

**2018 | Creating partnerships between veterinarians and small and medium-sized farmers to enhance economic efficiency and sustainability**

USDA-National Institute of Food and Agriculture Role: PI Submitted: \$499,999

**2018 | Showcasing award-winning veterinary educators with a teaching panel and teaching nugget videos**

American Veterinary Medical Association Role: Col Awarded: \$2,0000

**2018 | Adaptive Acute Kidney Injury Cases**

College of Veterinary Medicine & Biomedical Sciences, Texas A&M University Role: Col Awarded: \$28,730

**2018 | Pharmacology Slider Bar**

College of Veterinary Medicine & Biomedical Sciences, Texas A&M University Role: CoPI Awarded: \$7,852

**2018 | Adaptive Acute Kidney Injury Cases**

College of Veterinary Medicine & Biomedical Sciences, Texas A&M University Role: Col Awarded: \$25,000

**2018 | A Longitudinal Case-Based Online Key Feature Assessment Tool for Clinical Reasoning Based in Multiple Specialties**

Consortium of Northeastern Colleges of Veterinary Medicine Role: Co-I Awarded: \$9,936

**2018 | A Computer-based, Student-Centered Middle-School Approach to One Health Learning**

DHHS-NIH-National Institute of General Medicine Science (R25) Role: Co-PI Awarded: \$1,337,863

**2018 | Adaptive learning lessons on critical thinking to integrate veterinary disciplines**

USDA National Institute of Food and Agriculture Role: PI Unfunded: \$749,760

**2018 | Multidisciplinary, problem-based lessons on antimicrobial resistance for seamless integration into veterinary curricula**

USDA National Institute of Food and Agriculture Role: Co-PI Awarded: \$300,000

**2017 | Breaking Through-Fast Tracking Research into Commercialization**

National Institute of Health Role: Collaborator Unfunded: \$325,000

**2017 | Academic and Continuing Education Curricula on Pesticide Competencies for Medical & Nursing Students and Primary Health Care Providers**

US Environmental Protection Agency Role: Co-PI Unfunded: \$500,000

**2017 | Undergraduate Program**

W. M. Keck Foundation Role: Co-PI Unfunded: \$300,000

**2017 | USAID French West Africa SPS Training Program (TA-CR-17-010)**

USDA Foreign Agricultural Service Role: PI Awarded: \$235,101

**2017 | USAID Spanish SPS Training Program (TA-CR-17-008)**

USDA Foreign Agricultural Service Role: PI Awarded: \$1,181,054

**2016 | Antibiotic Use, Resistance, and Stewardship in Veterinary Practice for Domain 8 (200-2016-91789)**

DHHS-Centers For Disease Control and Prevention Role: Co-PI Awarded: \$350,873.84

**2016 | Foreign Animal Disease Diagnostician Manual 3rd Edition (16-9100-1538-CA)**

USDA MIS-Animal and Plant Health Inspection Service Role: Co-PI Awarded: \$106,039

**2016 I Sanitary & Phytosanitary (SPS) International Training Programs (TA-CR-16-033)**

USDA Foreign Agricultural Service Role: Co-PI Awarded: \$52,961

**2016 I Adaptive Learning Case Studies**

Texas A&M University College of Veterinary Medicine & Biomedical Sciences Role: Collaborator Awarded: \$24,923

**2016 I Foreign Animal Disease Diagnostician Manual Chinese Edition**

Charoen Pokphand Group Role: Co-PI Declined: \$568,057

**2016 I Foreign Animal Disease Continuing Education (15-9100-1492-CA)**

USDA MIS-Animal and Plant Health Inspection Service Role: PI Awarded: \$306,064

**2016 I Pakistan Distance Education for SPS (58-3148-1-235)**

USDA Foreign Agricultural Service Role: Collaborator Awarded: \$1,445,025.12

**2012 I Statistical Techniques Used in Educational Technology Journals, 2011-2012**

Texas A&M University College of Education and Human Development  
Graduate Research Grant Role: PI Awarded: \$600

## CONTRACTS

**2018 I Glucose & Cardiology Module Study**

University of Georgia Role: CoPI Awarded: \$5,000.04

**2018 I USDA Shipping Course Hosting Agreement Contract**

USDA Animal and Plant Health Inspection Service Role: PI Awarded: \$5,400

**2018 I StepStone License Agreement Contract**

TAMU College of Agriculture & Life Sciences Role: PI Awarded: \$2,175

**2018 I CSS Basic Instrument Use License Agreement Contract**

Oklahoma State University Role: CoPI Awarded: \$3,100

**2018 I Murmur Learner License Agreement Contract**

University of Illinois Role: CoPI Awarded: \$2,900

**2018 I StepStone License Agreement Contract**

TAMU College of Agriculture & Life Sciences Role: PI Awarded: \$625

**2018 I StepStone License Agreement Contract**

TAMU Medical Sciences Library Role: PI Awarded: \$2,175

**2018 I CSS Basic Instrument Use License Agreement Contract**

Kansas State University Role: CoPI Awarded: \$4,400

**2018 I CSS Basic Instrument Use & Knot Tying Course License Agreement Contract**

University of Missouri Role: CoPI Awarded: \$6,100

**2018 I Continuing Education Courses for Veterinarians**

VetFolio Role: CoPI Awarded: \$1,383.78

**2017 I Continuing Education Courses for Veterinarians**

VetFolio Role: CoPI Awarded: \$

## PUBLICATIONS

## PEER REVIEWED PUBLICATIONS

(Names in *italics* indicate co-authors are/were graduate students from Texas A&M University.)

Scott, C., Ritter, N. L., Fowler, R., & Franks, A. (in press). Developing a Community of Academic Writers: Using Social Media to Support Academic Accountability, Motivation, and Productivity. *Journal of Literacy and Technology*, 19.

Rezaei, D. F. & Ritter, N. L. (2018). Social media in education: Gains in student learning and instructor best practices In J. S. Keengwe *Handbook of Research on Mobile Technology: Constructivism, and Meaningful Learning*. Hershey, PA: IGI Global.

Quiroz, R. E., Ritter, N. L., Li, Y., Newton, R., Palkar, T. (2016). Standards Based Design: Teaching K-12 Educators to Build Quality Online Courses. *Journal of Online Learning Research*, 2, 123-144.

Ritter, N. L. (2017). Technology acceptance model of online learning management systems in higher education: A meta-analytic structural equation model. *International Journal of Learning Management Systems*, 5, 1-15.

Delen, E., Kaya, F., Ritter, N. L., & Sahin, A. (2015). Understanding parents' perceptions of communication technology use. *International Journal of Online Educational Sciences*, 7, 22-36. Doi: <http://dx.doi.org/10.15345/ijoes.2015.04.003>

Ritter, N. L. (2014). The Need for Meta-Analytic Thinking in Educational Technology Research. Doctoral dissertation, Texas A&M University. Available electronically from <http://hdl.handle.net/1969.1/153240>

Ritter, N. L. & Delen, E. (2013). Undergraduates' facebook use: Evidence-based practice to implement social media in education. *Int. J. Social Media and Interactive Learning Environments*, 1, 387-405. doi: 10.1504/IJSMILE.2013.057463 IRB2013-0176M

Warne, R. Lazo, M., Ramos, T. & Ritter, N. (2012). Statistical methods used in gifted education journals, 2006-2010. *Gifted Child Quarterly*, 56, 134 - 149. doi: 10.1177/0016986212444122

Kaya, F., Delen, E., & Ritter, N. (2012). Test review: Children's Organizational Skill Scales (COSS). *Journal of Psychoeducational Assessment*, 30, 205-208. doi: 10.1177/0734282911416320

Ritter, N., Kilinc, E., Navruz, B., & Bae, Y. (2011). Test Review: Test of Nonverbal Intelligence-4 (TONI-4). *Journal of Psychoeducational Assessment*, 29, 384-388. doi: 10.1177/0734282911400400

## REFEREED PRESENTATIONS

Heseltine, J.C., Ritter, N.L., Nabity, M.B. (June, 2018). *Activating Student Learning through Adaptive Learning Modules*. Joint Symposium of the Primary Care Veterinary Educators and the Veterinary Educators Collaborative, Ithaca, New York.

Heseltine J.C., Ritter, N.L., Nabity, M.B. (June, 2018). *Rehearsing the Role of the Decision Maker: Adaptive Learning Modules Allow Students to Progress*. 2018 ACVIM Forum. Seattle, Washington.

Heseltine, J.C., Ritter, N.L., Nabity, M.B. (January, 2018). *Students' Perspectives on Computer-Directed Individualized Instruction on Clinical Reasoning*. 2018 College of Veterinary Medicine Teaching Showcase. College Station, TX.

Heseltine, J.C., Ritter, N. L., Nabity, M. (March, 2017). *Activating Student Learning through Adaptive Learning Case Studies and Digital Badging*. Paper presented at the meeting of Texas A&M University System's Teaching with Technology Conference.

Heseltine, J., Ritter, N. L., Nabity, M. (January, 2017). *Instruction through Case-based Adaptive Learning*. Paper presented at the meeting of Texas A&M University College of Veterinary Medicine & Biomedical Sciences Teaching Showcase.

Quiroz, R. E., Ritter, N. L., Li, Y., Newton, R. (October, 2016). *Standards Based Design: Teaching K-12 Educators to Build Quality Online Courses*. Paper presented at the meeting of Quality Matters Conference.

*Mercer, R. & Ritter, N. L.* (September, 2015). Teaching faculty to design online courses-centering Quality Matters in a historically decentralized process. Paper presented at the meeting of Quality Matters Conference, Baltimore, MD.

*Scott, C., Ritter, N. L., Fowler, R., & Franks, A.* (February, 2015). Academia and Facebook: Social Media's Effects on Academic Writing. Paper submitted to the annual meeting of Ethnographic & Qualitative Research Conference, Las Vegas, NV.

**Ritter, N. L. & Navruz, B.** (February, 2015). The Need for Meta-Analytic Thinking in Educational Technology. Paper submitted to the annual meeting of the Southwest Educational Research Association (SERA), San Antonio, TX.

**Ritter, N. L. & Navruz, B.** (February, 2015). A Primer: Meta-Analytic Structural Equation Modeling. Paper submitted to the annual meeting of the Southwest Educational Research Association (SERA), San Antonio, TX.

*Navruz, B., Bicer, A., & Ritter, N. L.* (February, 2015). Reliability generalization of the Survey Attitudes toward Statistics (SATS). Paper submitted to the annual meeting of the Southwest Educational Research Association (SERA), San Antonio, TX.

*Navruz, B., Ritter, N. L., & Juntune, J. E.* (February, 2015). Examination of the factor structure of the Reynolds Intellectual Assessment Scales (RIAS) with a sample from poverty. Paper submitted to the annual meeting of the Southwest Educational Research Association (SERA), San Antonio, TX.

*Mercer, R. & Ritter, N. L.* (September, 2014). Teaching faculty to design online courses-centering Quality Matters in a historically decentralized process. Paper presented at the meeting of Quality Matters Conference, Baltimore, MD.

*Scott, C., Fowler, R., Ritter, N. L., Wright, K., & Franks, A.* (April, 2014). Academic facebook?: Using social media to support academic motivation, productivity, and accountability. Paper presented at the meeting of American Educational Research Association, Philadelphia, PA.

**Ritter, N. L.** (2013). Statistical Techniques Used in Educational Technology 2010-2013. Paper accepted at the meeting of Association of Educational Communications and Technology, Anaheim, CA.

*Bicer, A., Ritter, N. L., Capraro, M. M., Cavlazoglu, B., & Sahin, A.* (2013). Integrating Writing into Mathematics Classroom through Facebook. Paper presented at the meeting of School Science and Mathematics Association Conference, San Antonio, TX.

**Ritter, N. L.** (February, 2012). A comparison of distribution-free and non-distribution free methods in factor analysis. Paper presented at the meeting of Southwestern Educational Research Association, New Orleans, LA (ED529153).

**Ritter, N. L.** (February, 2011). Designing surveys to determine the impact of online social networks. Paper presented at the meeting of Student Affairs Administrators in Higher Education (NASPA) Technology, Newport, RI.

**Ritter, N. L.** (February, 2010). Understanding a widely misunderstood statistic: Cronbach's alpha. Paper presented at the meeting of Southwestern Educational Research Association Conference 2010, New Orleans, LA (ED526237).

## **OTHER PEER REVIEWED PUBLICATIONS**

Sanitary and Phytosanitary Standards International Training English Program. (2017). College Station, TX: Texas A&M University & United States Department of Agriculture. (172 hours contact time)

Adaptive Case Studies on Chronic Kidney Disease. (2017). College Station, TX: Texas A&M University. (8 hours contact time)

Foreign Animal Disease Diagnostician Manual [3rd ed.]. (2017). College Station, TX: Texas A&M University & United States Department of Agriculture.

Foreign Animal Disease Diagnostic Continuing Education Curriculum. (2017). College Station, TX: Texas A&M University & United States Department of Agriculture. (6 hours contact time)

Sanitary and Phytosanitary Standards International Training Program. (2017). College Station, TX: Texas A&M University & United States Department of Agriculture. (172 hours contact time)

Odyssey Middle School Science. (Version 16) e-course. (2011). Austin, TX: CompassLearning, Inc.

Odyssey High School Health. (Version 15.0) e-course. (2010). Austin, TX: CompassLearning, Inc.

Odyssey High School Earth Science. (Version 15.0) [e-course]. (2010). Austin, TX: CompassLearning, Inc.

Odyssey High School Chemistry. (Version 15.2) [e-course]. (2010). Austin, TX: CompassLearning, Inc.

Odyssey High School Physics. (Version 15.2) [e-course]. (2010). Austin, TX: CompassLearning, Inc.

Odyssey High School Biology. (Version 15.2) [e-course]. (2010). Austin, TX: CompassLearning, Inc.

Odyssey High School Physical Science. (Version 15.2) [e-course]. (2010). Austin, TX: CompassLearning, Inc.

Odyssey K-8 Mathematics. (Version 15.2) [e-course]. (2010). Austin, TX: CompassLearning, Inc.

SmartMath Intervention Program. (Version 12.0) [e-course]. (2006). Austin, TX: CompassLearning, Inc.

## EDITORIAL BOARD

### **2017 | International Network Center for Fundamental and Applied Research**

Editorial Board Member, Anatolian Journal of Instruction

## PUBLICATIONS REFEREED

### **2017 | Journal of Veterinary Medical Education**

### **2016 | Quality Matters Master Reviewer**

### **2016 | Journal of Educational Computing Research**

## PROFESSIONAL SERVICE

### **2014 | Southwestern Education Research Association Conference**

Proposal reviewer

### **2013 | Inderscience Publishers**

Peer reviewer for International Journal of Social Media and Interactive Learning Environments (IJSMILE).

### **2013 | Athabasca University Press**

Outside reviewer for International Handbook of E-learning by Mohamed Ally and Badrul Khan, 2014.

### **2013 | Southwestern Education Research Association Deans' Award**

### **2012 | Southwestern Educational Research Association (SERA)**

Student representative for Texas A&M University

**2012 | Texas A&M University Chapter Association for Educational Communications and Technology (AECT)**  
Past President

**2011-2012 | Texas A&M University Chapter Association for Educational Communications and Technology (AECT)**  
President

**2010-2011 | Texas A&M University Chapter Association for Educational Communications and Technology (AECT)**  
President-Elect

**2010 | Texas A&M University Association for Educational Communications and Technology (AECT) Local**  
Co-founder

## UNIVERSITY SERVICE

### UNIVERSITY LEVEL

**2017-present | Academic and Professional Track Committee**  
Faculty Representative, College of Veterinary Medicine & Biomedical Sciences

**2017-present | Women's Faculty Network**  
Officer & Steering Committee Representative, College of Veterinary Medicine & Biomedical Sciences

**2016-present | Texas A&M University Subscriber Reviews**  
Quality Matters Master Reviewer

**2012-present | Promoting Outstanding Writing for Excellence in Research (POWER)**  
Writing Support Service Consultant

**2012-present | Texas A&M University Association of Baptist Students (ABS)**  
Faculty Advisor

**2011 | Texas A&M University Student Research Week (SRW) 2011**  
Out-of-field judge for oral presentations, Human Anatomy, Physiology, and Kinesiology, Graduate/Undergraduate level.

### COLLEGE LEVEL

**2017-present | Initiative for Educational Excellence**  
Liaison

## CERTIFICATIONS

**2014 | Certificate in Education & Social Sciences Advanced Research Methods**

**2014 | Certified Quality Matters Higher Education Peer Reviewer**

**2014 | Certified Quality Matters K-12 Secondary Peer Reviewer**

**2014 | Certificate in Applying the Quality Matters K-12 Rubric**

**2012 | Certificate in Applying the Quality Matters Higher Education Rubric**

**2012 | Virtual Instructor Certificate Program**

**2011** | Texas A&M University College of Education and Human Development Summer Statistics Workshop Item Response Theory (IRT)

**2011** | Texas A&M University College of Education and Human Development Summer Statistics Workshop Meta-Analysis

**2010** | Texas A&M University College of Education and Human Development Summer Statistics Workshop Intermediate Statistics: ANOVA and Regression

**2008** | North Carolina Testing Program Certification in Item Development Basics

**2005** | Scott and White Worth the Wait Teacher Certification

**2005** | Texas State Board of Education - 4th -8th Grade Mathematics/Science Certification

## HONORS AND AWARDS

**2018** | Texas A&M University GoWeb Award for Transformational Education

**2013** | CODiE Award recipient for product design

**2012** | Eddie Award recipient for product design

**2012** | Bessie Award recipient for product design