



Curriculum Vitae

Michael E Moore, Ph.D.

Department of Chemistry

Donaghey College of Science, Technology, Engineering, and Mathematics

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EDUCATION

- 2017 Ph.D. Integrative Biology, Oklahoma State University; Stillwater, OK
Dissertation: Assessing Student Behaviors and Motivation for Actively Learning Biology
Advisor: Dr. Donald French
- 2013 M.S. Biology, Ball State University; Muncie, IN
Thesis: A study of a hybrid course in non-majors biology: an assessment of changes in student attitudes and levels of engagement
Advisor: Dr. William Rodgers
- 2005 B.S. Biology, Taylor University; Upland, IN
Advisor: Dr. John Moore

EMPLOYMENT

- 2021-present Learning Assistant Program Coordinator, University of Arkansas at Little Rock, Little Rock, AR.
- 2020 Postdoctoral Scholar, University of California – Davis, Davis, CA.
- 2019-2020 Postdoctoral Research Associate, University of Nebraska – Lincoln, Lincoln, NE
- 2017-2019 Postdoctoral Teaching Fellowship in STEM Education, Baylor University; Waco, TX
- 2014-2017 Graduate Research Assistant on HHMI Undergraduate Introductory Course Reform Grant; Oklahoma State University; Stillwater, OK
- 2013-2014 Graduate Teaching Assistant; Oklahoma State University; Stillwater, OK
- 2012-2013 Graduate Teaching Assistant; Ball State University; Muncie, IN

GRANTS/FELLOWSHIPS FUNDED

- 2021-2022 *Inclusive Biologists Exploring Active Research with Students (iBEARS)*. PI: Tracey Sulak, Co-PIs: **Michael E. Moore**, Penny Thompson, and Brad Christian. NSF INCLUDES Planning Grant 2040595: \$99,999.
- 2019-2023 *Inclusive Environments and Metrics in Biology Education and Research*. PI: Jana Marcette, Co-PIs: Rebecca Campbell-Montalvo, Natalia Caporale, and Richard



- Harvey. NSF Research Coordination Network in Undergraduate Biology Education 1919654: \$499,999. (Senior personnel and grant co-author).
- 2017 National Science Foundation (NSF) Research Coordination Network in Undergraduate Biology Education (RCN-UBE) PALM Network Fellowship Award (\$2000)
- 2016 Oklahoma State University Graduate and Professional Student Government Association (OSU: GPSGA) travel award (\$797)
- 2015 National Science Foundation (NSF) travel award to attend Research Experiences in Introductory Laboratory (R.E.I.L.) in Biology workshop (\$1000)
- 2014 National Science Foundation (NSF) travel award to attend the Microbial Genome Annotation Network (MGAN) Genomics Education National Initiative - Annotation Collaboration Toolkit (GENI-ACT) workshop (\$1016)

Grants in Review and Development

- 2021-2024 *Assessing Life-Science Inclusion Instruments (ALII)*. PI: **Michael E. Moore**, Co-PI: Natalia Caporale. NSF Education and Human Resources Core Research Grant 2100303. Rec. \$378,078 (In review)

PUBLICATIONS

- 2020 1) **Moore, M. E.**, A. Naganathan, S. L. Blummer, C. C. Goller, A. Misra, S. A. Raut, S. Uma, S. Wick, and M. J. Wolyniak. (2020). Facilitating Long-Term Mentoring to Effectively Implement Active Learning Instruction: The Formation of the Promoting Active Learning and Mentoring (PALM) Network. *J. Microbiol. Biol. Educ.* 21(3) <https://doi.org/10.1128/jmbe.v21i3.2203>
- 2) Purtell, A. J.*, Talbot, R. M. and **Moore, M. E.** (2020). Barriers to Learning Assistant Engagement: An Investigation into Student Encounters Learning Assistants Find Challenging and Developing Training to Navigate Those Challenges. *Journal of College Science Teaching*, 49(6), 23-29.
- 3) **Moore, M. E.**, Vega, D. M., Wiens, K. M., and Caporale N. (2020). Connecting theory to practice: using self-determination theory to better understand inclusion in stem. *J. Microbiol. Biol. Educ.* 21(1): <https://doi:10.1128/jmbe.v21i1.1955>
- 4) Campbell-Montalvo, R.A., Caporale, N., McDowell, G. S., Idlebird, C., Wiens, K. M., Jackson, K. M., Marcette, J. D., and **Moore, M. E.** (2020). Insights from the inclusive environments and metrics in biology education and research network: our experience organizing inclusive biology education research events. *J. Microbiol. Biol. Educ.* 21(1): <https://doi:10.1128/jmbe.v21i1.2083>
- 2019 5) Xiu, Y., **Moore, M. E.**, Thompson, P.; French, D. P. (2019) Student Perceptions of Lecture-Capture Video to Facilitate Learning in a Flipped Classroom. *TechTrends*. <https://doi.org/10.1007/s11528-018-0293-6>



- 6) Parizi-Robinson, M., and **Moore, M. E.** (2019). This Week You Next Week Me: Rotational Peer-to-Peer Dissections and Presentations to Augment Undergraduate Laboratory Sessions. *The FASEB Journal*, 33(1_supplement), lb120-lb120. https://doi.org/10.1096/fasebj.2019.33.1_supplement.lb120
- 7) Tennial, R. E, Solomon, E. D., Hammonds-Odie, L. P., McDowell, G. S., **Moore, M. E.**, Roca, A. I., and Marcette, J. D. (2019). Meeting Report: Formation of the inclusive Environments and Metrics in Biology Education and Research (iEMBER) Network: Building a Culture of Diversity and Inclusion. *CBE – Life Sciences Education*. <https://doi.org/10.1187/cbe.18-03-0042>
- 2017 8) Stewart, J. F., **M. E. Moore**, J. L. Forshee, K. D. Boyles, M. G. Harmon, J. N. Bruck, D. P. French. 3D-Printed Fish Models for Testing Guppy Mate Choice. In: *Proceedings of the 38th Conference of the Association of Biology Laboratory Educators (ABLE)*. <http://www.ableweb.org/volumes/vol-38/v38toc.htm>

In Review / In Preparation / In Revision

- 1) Stewart, J. F., Gustafson, J. E, **Moore, M. E.**, Forshee, J. L., French, D. P., and Ayoubi-Canaan, P., and. Trials and Tribulations: Implementation of Effective and Productive Course-Embedded Research Projects in Undergraduate Laboratories. (In revision)
- 2) **Moore, M. E.**, A. J. Sebesta, and G. E. Gardner. Motivation research in biology education: A Review. (In prep)
- 3) Tolar, A., M. L. Harvill, T. Sulak, P. Thompson, and **M. E. Moore**. Explicitly Infusing 21st Century Skill Training into the Undergraduate Curriculum: Inclusive Biologists Engaging in Active Research with Students (iBEARS). (In prep)

PRESENTATIONS

Invited

- 2020 1) **Moore, M. E.** and M. Parizi-Robinson. November, 2020. What makes an LA effective? *International LA Conference*. Virtual Conference.
- 2) Caporale, N., J. Marcette, and **M. E. Moore**. October 24, 2020. Fostering Inclusive Learning Environments in STEM. *64th Annual ACUBE Meeting*. Virtual Conference.
- 3) **Moore, M. E.** January 28, 2020. Exploring the Effect of Motivation and Behavior on Inclusivity in the Health Sciences. *Mallison Institute for Science Education*. Western Michigan University, Kalamazoo, MI.



- 2019 4) **Moore, M. E.** June 5, 2019. Linking Relevant Experiences in Discipline-Based Education Research to STEM Professional Development. *Department of Science Teaching*. Syracuse University, Syracuse, NY.
- 5) **Moore, M. E.** March 14, 2019. Supporting Student Motivations and Emotions. Foundations for Teaching Workshop. *The Academy for Teaching and Learning*. Baylor University, Waco, TX.
- 2018 6) **Moore, M. E.** March 8, 2018. Increasing our Students' Engagement: Understanding Student Motivation to Actively Learn. *Bedi Center for Teaching and Learning Excellence*. Taylor University, Upland, IN.
- 2017 7) **Moore, M. E.** September 28, 2017. Best practices for STEM outreach. *Fine Focus journal*. Ball State University, Muncie, IN.
- 8) McDowell, G. and **M. E. Moore**. June 13, 2017. Considerations for Student and Post-Doc Professional Development. *EMBER Conference*. Harris-Stowe State University, St. Louis, MO.

Refereed

- 2020 1) **Moore, M. E., N.**, Caporale, E. Martinez, & R. E. Tennial. November 7, 2020. How To Teach Inclusively: Tips, Tricks, and Evidence for Your Biology Course. *NABT Professional Development Conference*. Virtual Conference.
- 2) **Moore, M. E., S.** Uma, C. C. Goller, A. Misra, A. Naganathan, M. S. Stieben, K. Johnson, and S. Wick. July 31, 2020. Does a personalized and long-term teaching mentoring program actually work? *SABER National Meeting*. Virtual Conference.
- 3) McCall, M., M.L. Harvill, T.N. Sulak, A. Tolar, and **M.E. Moore**. January 11, 2020. Virtual science mentoring: undergraduate biology major's guidance of elementary and middle school students' science research project. *ASTE International Conference*. San Antonio, TX.
- 2019 4) **Moore, M. E., A.J.** Sebesta, and G. E. Gardner. July 27, 2019. A Critical Synthesis of the Literature on Motivation to Learn in Postsecondary Biology. *SABER National Meeting*. University of Minnesota, Minneapolis, MN.
- 2018 5) **Moore, M. E., J. M.** Moore, and D. P. French. November 11, 2018. Learn, Create, Revise, Repeat: A session on how to build quality clicker questions for biology courses using evidence-based best practices. *NABT Professional Development Conference*. San Diego, CA.
- 6) Crowe, A. J., E. T. Cline, H. Heinz, J. D. Marcette, E. Martinez, **M. E. Moore**, J. Reid, R. E. Tennial, and E. G. Weigel. July 28, 2018. Science Identity Intervention: Example of a collaboration between social scientists and biology education researchers through the iEMBER network. *SABER National Meeting*. University of Minnesota, Minneapolis, MN.



- 7) Reid, J., E. G. Weigel, E., A. J. Crowe, J. D. Marcette, **M. E. Moore**, E. D. Solomon, and R. E. Tennial. July 28, 2018. Bridging Worlds for Diversity and Inclusion: The Inclusion of Social Science with Biology Education Research Through the iEMBER Network. *SABER National Meeting*. University of Minnesota, Minneapolis, MN.
- 2017 8) Marcette, J., **M. E. Moore**, R. Tenniel, and E. Solomon. November 11, 2017. Building a Culture of Diversity and Inclusion in Biology Education and Research: The formation of the iEMBER Network. *NABT Professional Development Conference*. St. Louis, MO.
- 9) French, D. P., L. Bailey, J.F. Stewart, J. Steets, J. Gustafson, W. Hoff, and **M. E. Moore**. November 11, 2017. How Does Participation in Course-embedded Undergraduate Research Experiences in Introductory Biology Courses Affect Students' Motivation and Persistence in Life-science Majors? *NABT Professional Development Conference*. St. Louis, MO.
- 10) **Moore, M. E.** and D. P. French. November 10, 2017. How active learning instruction motivates students to learn biology. *NABT Professional Development Conference*. St. Louis, MO.
- 11) **Moore, M. E.**, Y. Xiu, P. Thompson, and D. P. French. July 23, 2017. Student perceptions of lecture capture video as a facilitator of learning in a flipped biology class. *SABER National Meeting*. University of Minnesota, Minneapolis, MN.
- 12) **Moore, M. E.**, C. E. Stephens*, R. E. Davis, and D. P. French. July 22, 2017. Using student engagement behavior as an indication of instructional effectiveness. *SABER National Meeting*. University of Minnesota, Minneapolis, MN.
- 2016 13) **Moore, M. E.**, J. C. Parrish, G. Gardner, and D. P. French. November 5, 2016. Do Active Learning Techniques Satisfy Student Psychological Needs? *NABT professional development conference*. Denver, CO.
- 14) Wilkes, A*, D. P. French, K. Daniels, and **M. E. Moore**. November 5, 2016. The Relationship between Religiosity and Acceptance of Evolutionary Theory Among Students in an Introductory Zoology Course. *NABT Professional Development Conference*, Denver, CO.
- 15) **Moore, M. E.**, R. H. Hawkins*, and D. P. French. November 5, 2016. What are my students thinking? Preparing for your flipped biology class. *NABT professional development conference*. Denver, CO.
- 16) **Moore, M. E.**, J. C. Parrish, G. Gardner, and D. P. French. July 15, 2016. Assessing students' motivations for actively learning. *SABER National Meeting*. University of Minnesota, Minneapolis, MN.
- 17) **Moore, M. E.**, D. P. French, and R. E. Davis. July 15th, 2016. Linking performance and participation in the flipped classroom. *SABER National Meeting*. University of Minnesota, Minneapolis, MN.



- 18) Stewart, J., D. P. French, **M. E. Moore**, and J. L. Forshee. June 23, 2016. Fish Models for Testing Guppy Mate Choice. *38th Annual ABLE meeting*. Huston University, Huston, TX.
- 19) **Moore, M. E.** and D. P. French. March 31, 2016. Predicting performance in the flipped classroom: Does active participation matter? *NSTA National Conference on Science Education*, Nashville, TN.
- 20) Stephens, C. E. *, **M. E. Moore**, and D. P. French. March 31, 2016. Assessing the effect of instructional strategies on student engagement in a flipped classroom. *NSTA National Conference on Science Education*, Nashville, TN.
- 2015 21) **Moore, M. E.**, D. P. French, and R. E. Davis. November 12, 2015. Is Active Student Participation in the Flipped Biology Classroom an Accurate Predictor of Performance? *NABT professional development conference*. Providence, RI.
- 22) Stephens, C. E. *, **M. E. Moore**, and D. P. French. November 12, 2015. Relationship between instructional strategies and student focus in a flipped, introductory-biology classroom (talk). *NABT Professional Development Conference*, Providence, RI.
- 23) Stephens, C. E. *, **M. E. Moore**, and D. P. French. November 12, 2015. Relationship between instructional strategies and student focus in a flipped, introductory-biology classroom (poster). *NABT Professional Development Conference*, Providence, RI.
- 24) French, D. P., J. Stewart, and **M. E. Moore**. November 14, 2015. Moving Students toward Authentic Research – Building an Extended-inquiry First-Year Laboratory that Emphasizes Mentoring, Feedback, and Authoring. *NABT Professional Development Conference*, Providence, RI.
- 25) French, D. P. and **M. E. Moore**. March 12, 2015. Flipping Out Over What We've Learned: Insights into the Implementation of a Flipped Classroom. *NSTA National Conference on Science Education*, Chicago, IL.
- 2014 26) **Moore, M.E.** and D. P. French. November 13, 2014. Flipping Out! How far we've come and how far we have left to go. *NABT Professional Development Conference*, Cleveland, OH
- 27) **Moore, M. E.** and D. P. French. August 5, 2014. Flipping Out! How far we've come and how far we have left to go. *ITLE Inaugural Big XII Teaching and Learning Conference*, Stillwater, OK
- 28) French, D. P. and **M. E. Moore**. April 3, 2014. SCST Session: An Adventure in Flipping an Inquiry-based Introductory Biology Course to Increase Active Learning. *NSTA National Conference on Science Education*, Boston, MA.
- 2013 29) French, D. P. and **M. E. Moore**. November 23, 2013. Flipping an Inquiry-based Biology Course – Lessons Learned. *NABT Professional Development Conference*, Atlanta, GA.

Workshops



- 2019 1) **Moore, M. E.**, T. Page, J. D. Marcette, R. Campbell-Montalvo, G. S. McDowell, and K. Weins. November 17, 2019. Strategies for a More Inclusive Biology Classroom. *NABT Professional Development Conference*, Chicago, IL.
- 2) Tripp, B., M. M. Chen, E. Genne-Bacon, L. M. Chau, K. M. Gray, J. de Lima, A. E. Kulesza, S. E. Andrews, J. L. Joyner, and **M. E. Moore**. July 26, 2019. Professional Development for Scholars-in-Training: What career options do I have in BER? *SABER National Meeting*. University of Minnesota, Minneapolis, MN.
- 2018 3) **Moore, M. E.** March 8, 2018. Deepening Student Engagement: Building an Evidence-Based Model for Using Clickers in Your Classroom. *Bedi Center for Teaching and Learning Excellence*. Taylor University, Upland, IN.
- 2016 4) **Moore, M. E.** November 20, 2016. Transitioning from Student to Faculty. *Interdepartmental Workshop series*. Oklahoma State University, Stillwater, OK.
- 5) **Moore, M. E.**, J. Twenter, and S. Dalpias. March 5, 2016. Effective teaching methods workshop. *Interdepartmental Workshop Series*. Oklahoma State University. Stillwater, OK.
- 6) **Moore, M. E.** and C. Williams. How to create and present an engaging poster. *Interdepartmental Workshop Series*. Oklahoma State University. Stillwater, OK.

Other

- 2020 1) **Moore, M. E.**, C. Idlebird, D. Vega, N. Caporale, and J. Marcette. April 18, 2020. April 2020 Virtual Networking Event on Inclusion Research in Undergraduate Biology (host). *iEMBER virtual event*.
- 2019 2) **Moore, M. E.**, E. A. Leone, J. F. Stewart, and D. P. French. July 25, 2019. CUREs, 3D printing, and Fish Behavior. *R.E.I.L. Biology Reunion Meeting*. University of Minnesota, Minneapolis, MN.
- 3) **Moore, M. E.**, M. Parizi-Robinson, and E. W. Close. January 23, 2019. Learning Assistants in STEM Courses and Beyond. *Seminars for Excellence in Teaching*. Academy for Teaching and Learning. Baylor University. Waco, TX.
- 2018 4) **Moore, M. E.**, A. J. Purtell*, and R. M. Talbot. November 3, 2018. Preparing LAs for Challenging Interactions. *2018 International LA conference*. The University of Colorado, Boulder, CO. DOI: 10.13140/RG.2.2.36642.89288
- 5) **Moore, M. E.**, and M. Parizi-Robinson. November 3, 2018. Incorporating CUREs in the Pedagogy Course: A Tale of Two Semesters. *2018 International LA conference*. The University of Colorado, Boulder, CO. DOI: 10.13140/RG.2.2.21823.15527
- 6) **Moore, M. E.** March 15, 2018. Click, Share, Discuss: Building an Evidence-Based Model for Using Clickers in Your Classroom. *Seminars for Excellence in Teaching*. Academy for Teaching and Learning. Baylor University. Waco, TX.



- 2017 7) French, D. F., **M. E. Moore**, and J. L. Forshee. June 28, 2017. Student-Response Clickers. *ITLE Teaching with Technology Symposium*. Oklahoma State University, Stillwater, OK.
- 10) French, D. F., J. L. Forshee, and **M. E. Moore**. June 28, 2017. Online Journals. *ITLE Teaching with Technology Symposium*. Oklahoma State University, Stillwater, OK.
- 11) **Moore, M. E.** June 13, 2017. Student Motivation and Behaviors for Actively Learning Biology. *EMBER Conference*. Harris-Stowe State University, St. Louis, MO.
- 12) **Moore, M. E.** The Effect of Active Learning on Student Behavioral Engagement. February 14, 2017. *3-Minute Thesis Competition*. Oklahoma State University. Stillwater, OK.
- 2016 11) **Moore, M. E.**, C. E. Stephens*, and D. P. French. February 15, 2016. Using Student Behavior as an Indicator of Engagement. *Oklahoma State University research week competition*. Stillwater, OK.
- 12) **Moore, M. E.** Motivation and Behavior in the Flipped Classroom. February 4, 2016. *3-Minute Thesis competition*. Oklahoma State University. Stillwater, OK.
- 2015 13) Stephens, C. E. *, **M. E. Moore**, and D. P. French. April 15, 2015. Relationship between instructional strategies and student focus in a flipped, introductory-biology classroom. *Karen L. Smith Undergraduate Research Symposium*. Oklahoma State University, Stillwater, OK.

* = Undergraduate Mentee, §=Graduate Student Mentee

SERVICE

- 2020 1) iEMBER 2020: Forming Research Teams to address Institutional Racism and White Privilege in STEM Education Virtual Conference Co-Facilitator
- 2) Inclusive Environments and Metrics in Biology Education and Research (iEMBER) conference planning committee.
- 3) Manuscript reviewer CBE-Life Sciences Education.
- 4) *Fine Focus* editorial board member. Invited October 10, 2017
- 2019 5) Grant Review panel member for National Science Foundation, April 2019.
- 6) Manuscript reviewer CBE-Life Sciences Education.
- 7) Manuscript reviewer for the American Biology Teacher.
- 8) Manuscript reviewer for Fine Focus.
- 9) SABER steering committee member. Invited September 20, 2017.
- 2018 10) Manuscript reviewer CBE-Life Sciences Education.
- 11) Co-Founded and coordinator of the Baylor Learning Assistant program (BLAST). Inception August 1, 2017. Baylor University; Waco, TX.



- 12) Founder, coordinator, web site manager, SABER Motivation Special Interest Group (SIG). Created July 26, 2016.
- 13) Professional Development Committee member. Joined November 4, 2016. *NABT professional development conference*. Denver, CO.
- 14) Biology Education Research Committee member. Joined November 5, 2016. *NABT professional development conference*. Denver, CO.
- 2017 15) Poster Judge. Biology education research poster competition. November 11, 2017. *NABT professional development conference*. St. Louis, MO.
- 16) Discussion Panel Participant for the Networking and Mentoring Workshop for the Graduate Student Committee of NABT. November 11, 2017. *NABT professional development conference*. St. Louis, MO.
- 17) Hosted First Meeting of the SABER Motivation Special Interest Group. July 22, 2017. *SABER National Meeting*. The University of Minnesota. Minneapolis, MN.
- 18) Paper Judge. March 3, 2017. Kansas-Nebraska-Oklahoma Regional Junior Science and Humanities Symposium (JSHS)
- 19) Graduate Teaching Mentor. Appointed September 24, 2016. *Institute of Teaching and Learning Excellence*. Oklahoma State University, Stillwater OK.
- 2016 20) Hosted Networking and Mentoring Workshop for the Graduate Student Committee of NABT. November 5, 2016. *NABT professional development conference*. Denver, CO.
- 21) Paper Judge. March 4, 2016. Kansas-Nebraska-Oklahoma Regional Junior Science and Humanities Symposium (JSHS)
- 22) Graduate Committee Chair. Appointment November 14, 2015. *NABT professional development conference*. Providence, RI.
- 23) IRB board member (student). Appointed December 18, 2014. Oklahoma State University. Stillwater, OK.
- 2015 24) Poster Judge. December 4, 2015. Karen L. Smith Undergraduate Research Symposium, OSU, Stillwater, OK.
- 25) Hosted CV and Mentoring Workshop for the Graduate Student Committee of NABT. November 13, 2015. *NABT professional development conference*. Providence, RI.
- 26) 9th Grade Judge. March 6, 2015. Kansas-Nebraska-Oklahoma Regional Junior Science and Humanities Symposium (JSHS)
- 27) Introductory Psychology Course Reform Committee (OSU)
- 2014 28) Graduate Committee Assistant Chair. Appointment November 15, 2014. *NABT professional development conference*. Cleveland, OH.
- 29) What it means to be a scientist presentation. October 28, 2014. Will Rodgers Elementary. Stillwater, OK.



- 30) National Lab Day Volunteer Guide. May 15, 2014. National Lab Day, OSU, Stillwater, OK.
- 31) Poster Judge for the Society for College Science Teachers Undergraduate Science Research Poster Session. April 5. *NSTA National Conference on Science Education*, Boston, MA
- 32) 9th Grade Judge. March 28, 2014. Kansas-Nebraska-Oklahoma Regional Junior Science and Humanities Symposium (JSHS)

AWARDS/HONORS

- EMBER Idea Award: Brownell, S. E., K. M. Cooper, **M. E. Moore**, and K. Colyott. June 13, 2017. Who are we? Documenting the representation of different social identities in biology. \$4,000. *EMBER Conference*. Harris-Stowe State University, St. Louis, MO.
- EMBER Lightning Talk Award. **Moore, M. E.** June 13, 2017. Student Motivation and Behaviors for Actively Learning Biology. *EMBER Conference*. Harris-Stowe State University, St. Louis, MO.
- First Place. Wilkes, A, D. P. French, K. Daniels, and **M. E. Moore**. November 5, 2016. The Relationship between Religiosity and Acceptance of Evolutionary Theory Among Students in an Introductory Zoology Course. *NABT Professional Development Conference*, Denver, CO.
- Second Place. **Moore, M. E.**, C. E. Stephens, and D. P. French. February 15, 2016. Using Student Behavior as an Indicator of Engagement. *OSU Research Symposium*. OSU Research Week, Stillwater, OK.
- First Place. Stephens, C. E., **M. E. Moore**, and D. P. French. November 12, 2015. Relationship between instructional strategies and student focus in a flipped, introductory-biology classroom. Scholarship of Teaching and Learning Poster Competition. *NABT Professional Development Conference*, Providence, RI.
- Third place. **Moore, M. E.**, D. P. French, and R. E. Davis. November 12, 2015. Is Active Student Participation in the Flipped Biology Classroom an Accurate Predictor of Performance? Scholarship of Teaching and Learning Poster Competition. *NABT professional development conference*. Providence, RI.
- First Place. Stephens, C. E., **M. E. Moore**, and D. P. French. April 15, 2015. Relationship between instructional strategies and student focus in a flipped, introductory-biology classroom. *Karen L. Smith Undergraduate Research Symposium*. Oklahoma State University, Stillwater, OK.

COURSES TAUGHT (LECTURE AND/OR LABORATORY)

Baylor University:

BIC 2437 & 2447 - Natural World 1&2

BIO 1305 & 1306 - Modern Concepts in Bioscience 1&2



BIO 3100 - Biology Education Theory

BIO 4365 - Topics in Evolution

Oklahoma State University:

BIO 1114 - Introductory Biology Lab Instructor and Lecture Facilitator

IVY Tech Community College:

Anatomy and Physiology Labs

COURSES/PROGRAMS CREATED

Baylor University: Baylor Learning ASsisTant (BLAST) program and Biology Education Theory.

PROFESSIONAL MEMBERSHIPS

Inclusive Environments and Metrics in Biology Education and Research (iEMBER)	2017-
International Learning Assistant Alliance (ILAA)	2017-
National Association of Biology Teachers (NABT)	2013-
National Science Teachers Association (NSTA)	2013-2016
Society for the Advancement of Biology Education Research (SABER)	2016-

CERTIFICATIONS AND CERTIFICATES

Course Design Cohort. 2016. Institute for Teaching and Learning Excellence (ITLE).
Oklahoma State University. Stillwater, OK
Effective Teaching Practices Cohort. 2016. Institute for Teaching and Learning
Excellence (ITLE). Oklahoma State University. Stillwater, OK

COMPUTER SKILLS

Computational Modeling: Cell Collective
Operating Systems: MacOS, Windows XP, MS-DOS
Programming Languages: C#
Statistical Software: Excel, SPSS, R
Multimedia: PowerPoint, Adobe Premier, Camtasia, InDesign
Qualitative Research Software: NVIVO, SnagIt
Journal Management Software: Online Journal Systems (OJS)
Bioinformatics Software: Genomics Education National Initiative - Annotation
Collaboration Toolkit (GENI-ACT)
Behavioral Assessment Software: Swivl
Learning Management Systems: Blackboard, Desire-2-Learn, and Canvas
Video Conferencing Software: Zoom, WebEx
Online Project Management Tools: Slack

SCIENTIFIC EQUIPMENT SKILLS



PCR, RT-PCR, Gel Electrophoresis, TEM and SEM (use and specimen preparation),
Confocal Microscopy, and Vernier probes

STUDENTS MENTORED

Undergraduates

Baylor University

Sarah Holevinski (How students conceptualize intelligence in college-level biology classes)

Ali Purtell (Assessing the Efficacy of a Learning Assistant Behavioral Intervention)

Rachel Ray (Assessing the Impact of Different Methods of Clicker Use)

Yeshumenesh Zegeye, Monica Dai, and Austin Tran (Virtually mentoring authentic research experiences in middle school classrooms)

Taylor Nack (Training students to think metacognitively in undergraduate biology courses). Honors thesis.

Oklahoma State University

Cara E. Stephens (Relationship between instructional strategies and student focus in a flipped, introductory-biology classroom.) B.S. 2015.

Rachel H. Hawkins (Student opinions after day one of a flipped class.)

Austin Wilkes (Using biology student religiosity to predict acceptance of evolution.) B.S. 2019

GRADUATE COURSES TAKEN

Ball State University: Limnology, Readings in Biology, Seminar, Cell Biology, Theory and Application of PCR, Microtechniques, Developmental Biology, Developments in Biology Education, Research Methods in Science Education

Oklahoma State University: Intro to Qualitative Research, Research Design and Methodology, Linking Ecology and Evolution, Teaching Zoology, Succeeding in the Professoriate, Statistical Methods in Education, Evolution, Human Motivation, Psychology of Learning, Basic Programming, Evolutionary Ecology, Effective Mentoring, Qualitative Inquiry in STEM, Analysis of Variance, Multiple Regression in Behavioral Studies, Psychometric Theory, Special Topics in Grantsmanship, Broadening the Impact of Your Research: Theory and Practice.