

CURRICULUM VITA  
current and accurate as of May 15, 2023

**Samantha M. Shields, Ph.D.**

**Assistant Director of Curriculum Development, Center for Teaching Excellence  
Texas A&M University  
College Station, Texas**

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**EDUCATION**

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| 2022, May    | Ph.D. | Texas A&M University, College Station, TX<br>Curriculum and Instruction<br>Emphasis: Teacher Education and Technology<br>Dissertation Chairs: Michael de Miranda and Debra Fowler<br>Dissertation Title: Shifting pedagogical paradigms: The active learning in engineering program. |
| 1998, August | M.Ed. | Texas A&M University, College Station, TX<br>Curriculum and Instruction<br>Emphasis: Science   |
| 1997, May    | B.S.  | Texas A&M University, College Station, TX<br>Major: Interdisciplinary Studies<br>Minor: Mathematics  |

**TEXAS TEACHER CERTIFICATION AREAS**

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Elementary Reading Grades (Grades 1-6)  
Elementary Self-Contained (Grades 1-8)  
Elementary Mathematics (Grades 1-8)  
Gifted and Talented (obtained and kept current 1999 through 2007)

**PROFESSIONAL EXPERIENCE**

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2022–present      *Assistant Director of Curriculum Development* – Center for Teaching Excellence, Texas A&M University, College Station, TX.

*Program Design and (Re)Design, curriculum development, course design (specifically large intro courses), teaching and learning (specifically*

*STEM emphasis), innovative pedagogies, Open Education Resources, Scholarship of Teaching and Learning, consultation, and educational development.*

*Liaison for Texas A&M's Enhancing the Design of Gateway Experiences (EDGE) grants, Innovative Learning Classroom Building contact, liaison with TAMU at Qatar's Center for Teaching and Learning in Doha, and University Curriculum Committee member – ex-officio.*

2018–2022

*Instructional Consultant – Center for Teaching Excellence, Texas A&M University, College Station, TX.*

*Program Design and (Re)Design, curriculum development, course design (specifically large intro courses), teaching and learning (specifically STEM emphasis), innovative pedagogies, Open Education Resources, Scholarship of Teaching and Learning, consultation, and educational development.*

*Active Learning in Engineering Program, MATH Enhancing the Design of Gateway Experiences grant, HIST Enhancing the Design of Gateway Experiences grant, Innovative Learning Classroom Building Project Management Team and Taskforce, Teaching to Increase Diversity and Equity in STEM (TIDES) Institute team member, Inclusive Teaching Faculty Fellows Program, Worcester Polytechnic Institute's Project-Based Learning Institute team member, Association of College and University Educators (ACUE) - Effective Teaching Practices course facilitator, liaison with TAMU at Qatar's Center for Teaching and Learning in Doha, and University Curriculum Committee member – ex-officio.*

2016–2018

*Graduate Assistant for Curriculum Development – Architectural Engineering, Active Learning in Engineering Program, Center for Teaching Excellence, Texas A&M University, College Station, TX.*

2015-2017

*Intern, Education Research Center, Texas A&M University, College Station, TX.*

2015-2016

*Teaching Assistant, Department of Teaching, Learning, and Culture, College of Education, Texas A&M University, College Station, TX.*

2010-2015

*Assistant Lecturer and Field Supervisor, Department of Teaching, Learning and Culture, College of Education, Texas A&M University, College Station, TX.*

1999

*Consultant, Topex/Poseidon Education Project, Department of Oceanography and Department of Curriculum and Instruction, College of*

Geosciences and College of Education, Texas A&M University, College Station, TX.

1997-1998      *Research Assistance*, Topex/Poseidon Education Project, Department of Oceanography and Department of Curriculum and Instruction, College of Geosciences and College of Education, Texas A&M University, College Station, TX.

**COURSES TAUGHT – Department of Teaching, Learning, and Culture, Texas A&M University, College Station, TX.**

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- EDCI 354      **Early Childhood and Adolescent Curriculum and Lesson Design**  
Examination of curriculum models used in educational environments designed for young children through adolescents and the organization of the curriculum; investigation of state-adopted curriculum knowledge and skills standards and materials as well as their use and expansion.
- TEFB 371      **Dynamics and Management in Multicultural/Inclusionary Learning Environments**  
Field-based course focusing on communication, methodology and management perspectives that lead to democratic classrooms; organizational structures that focus on transformative, inclusionary learning; interventions for students with disabilities; analysis of systemic conditions placing children from diverse backgrounds and representing diverse abilities in positions of "risk" for incomplete success in school.
- TEFB 413      **Science Methods in the Elementary School**  
Designed to help elementary teachers understand basic concepts of science and scientific methods; content relates to natural phenomena involving physical, chemical and biological processes; elementary students' appreciation and interest in science.

**K-12 CLASSROOM EXPERIENCE**

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- 2000-2007      *Teacher*, Greenways Intermediate School - sixth grade, Canyon Independent School District, Amarillo, TX.
- 2003-2007      *Math Department Head*, Greenways Intermediate School, Canyon Independent School District, Amarillo, TX.
- 2003-2007      *Building Advisory Committee*, Greenways Intermediate School, Canyon Independent School District, Amarillo, TX.
- 2003-2007      *Team Leader*, Greenways Intermediate School, Canyon Independent School District, Amarillo, TX.
- 1998-2000      *Teacher*, Rock Prairie Elementary School - fourth grade, College Station Independent School District, College Station, TX.

1999-2000 *Texas A&M Methods Student Mentor Teacher*, Rock Prairie Elementary School, College Station Independent School District, College Station, TX.

### **PEER-REVIEWED PUBLICATIONS and CONFERENCE PROCEEDINGS**

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Fogarty, M., Whiteside, E., Montague, M., **Shields, S.**, Sallese, M. R., Devlin, M., Gilson, C., Shikarpurya, S. (Under Review). Data-informed Program Redesign decisions of a special education teacher preparation program. *Teacher Education and Special Education*.

Li, W., Bain, J., Lee, C., Bologan, A., Chaspari, T., Masterson, J., Stillsano, J., Wright, K., **Shields, S.**, Fowler, D. (Under Review). Interdisciplinary and project-based service-learning for smart and connected communities: Insights from ENDEAVR. *Journal of Interdisciplinary Studies in Education*.

Watson, K., Yoon, S., **Shields, S.**, Barroso, L., & Palsole, S. (2019, April). *Diverse engineering faculty's perceptions and practice of active learning at a southwestern university*. Proceedings of the 2019 American Society for Engineering Education (ASEE) Conference & Exposition, Tampa, FL.

Arroyave, A., **Shields, S.**, Chang, C., Fowler, D., Malak, R., & Allaire, D. (2018, November). Interdisciplinary research on designing engineering materials systems: Results from a National Science Foundation workshop. *Journal of Mechanical Design*, 140, 110801-1-110801-9.

Wright, K. B., **Shields, S. M.**, Black, K., Banerjee, M. & Waxman, H. (2018). Teacher perceptions of influence, autonomy, and satisfaction in the early race to the top era. *Educational Policy Analysis Archives*, 26(62), 1-29.

Wright, K. B., **Shields, S. M.**, Black, K. & Waxman, H. (2018). The effects of teacher home visits on student behavior, student academic achievement, and parent involvement. *School Community Journal*, 28(1), 67-90.

Singer, E. A. & **Shields, S. M.** (2017). The history of the Austin College Building and Old Main at Sam Houston State University. *American Educational History Journal*, 44(1/2), 87-101.

Atif, M. R., **Shields, S. M.**, Fowler, D. A. & Claridge, D. E. (2017, April). *Industry-aligned interdisciplinary program design*. Proceedings of the 2017 American Society for Engineering Education (ASEE) Conference & Exposition, Columbus, OH.

### **TECHNICAL REPORTS**

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Black, K. P., Wright, K. B., & **Shields, S. M.** (2016). *Evaluation of the Harmony Public Schools home visit program*. Submitted to Harmony Public Schools.

## OPEN EDUCATIONAL RESOURCE TEXTBOOKS

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Bollinger, K., & Coffelt, V. (2020). *Mathematics for business and social sciences*. Texas A&M University Libraries OAKTrust. <https://hdl.handle.net/1969.1/188687>.

Acknowledgement: Shields, S. M.

Allen, A., Orchard, P. (2021). *Calculus for business and social sciences*. Texas A&M University Libraries OAKTrust. <https://oaktrust.library.tamu.edu/handle/1969.1/194503>.

Acknowledgement: Shields, S. M.

## INTERNATIONAL and NATIONAL PRESENTATIONS

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Herzogenrath, J., **Shields, S.**, Ross, K., Kailani, S., & Blanton, C. (2023, January). *Flipped, flexible, and free (resources): Reinvigorating the big US history survey at Texas A&M University*. Presented at the 2023 annual American Historical Association Conference, Philadelphia, PA.

**Shields, S.**, Patterson, C., & Poling, N. (2022, November). *Shifting mindsets via a Re:Imagined Community of Scholars approach*. Presented at the 2022 annual Professional and Organizational Development (POD) Network Conference, Seattle, WA.

Wobbe, K., LeChasseur, K., **Shields, S.**, Shaver, I., & Reese, M. (2022, November). *There is no template: A PBL model for supporting professional development*. Presented at the 2022 annual Professional and Organizational Development (POD) Network Conference, Seattle, WA.

Wobbe, K., LeChasseur, K., Reese, M., & **Shields, S.** (2022, November). *A national field scan of project-based learning in STEM higher education*. Presented at the 2022 annual Association of American Colleges & Universities' (AAC&U) Transforming STEM Higher Education Conference, Arlington, VA.

**Shields, S.**, & LeChasseur, K. (2022, June). *Institutional transformation using project-based learning: A systematic review of the literature*. Poster presentation at the 2022 annual National Science Foundation's (NSF) IUSE Summit, Washington, D.C.

Wobbe, K., LeChasseur, K., Reese, M., & **Shields, S.** (2022, January). *There is no template: A PBL model for supporting professional development*. Presented at the 2022 annual Association of American Colleges & Universities' (AAC&U) Conference, Washington, D.C.

Fogarty, M., Sallese, M., & **Shields, S.** (2021, November). *Steering your educator preparation program into the future: A data-driven and collaborative curriculum redesign process*. Single paper session at the 2021 annual Teacher Education Division of the Council for Exceptional Children Conference. Fort Worth, TX.

- Montague, M. L., **Shields, S.**, Gilson, C., Shikarpurya, S., & Burton, L. (2021, November). *Using former student data to “steer” curricular redesign decisions*. Conversation session at the 2021 annual Teacher Education Division of the Council for Exceptional Children Conference. Fort Worth, TX.
- Alves, M., **Shields, S.**, Myint, A., Donaway, L., Horn, H., & Rueschhoff, T. (2021, April). *Curriculum support for global experiences*. Presented via Zoom at the 2021 Global Engineering Engagement Conference.
- Shields, S.**, Allen, A., Bollinger, K., Coffelt, V., Herbert, B., Orchard, P., & Whitfield, J. (2020, November). *Customizing textbooks without publishers: Empowering MATH faculty to create an open educational resource (OER)*. Presented as a 10-minute asynchronous Lightning Talk (YouTube citation below) at the 2020 Open Education Conference.
- Shields, S.**, Allen, A., Bollinger, K., Coffelt, V., Orchard, P., Whitfield, J., Scott, T., & Oswald, E. [TAMU Math Department]. (2020, October 30). *OpenSource TAMU final* [Video]. YouTube. <https://www.youtube.com/watch?v=qRgh9l1qtPs&t=27s>
- Shields, S.**, Palsole, S., & Watson, K. (2019, August). *Actively sneaking up on faculty who don't think they need or have time for faculty development*. Roundtable at the 2019 International Forum on Active Learning Classrooms, Minneapolis, MN.
- Shields, S.**, & Palsole, S. (2018, November). *So you built an active learning space: Now what? – The active learning in engineering program*. Presented at the 2018 annual Association of American Colleges & Universities' (AAC&U) Transforming Undergraduate STEM Education Conference, Atlanta, GA.
- Fowler, D. (2018, October). *Aerial and microscopic: Programmatic curriculum rebuilding for post-secondary cultural change*. Collaborated with Dr. Debra Fowler on her presentation at the 2018 annual International Society for the Scholarship of Teaching and Learning Conference, Bergen, Norway.
- Fowler, D., Sandoval, C., **Shields, S.**, Poling, N., & MacWillie, S. (2017, October). *Program (re)design model for learner-centered curriculum*. Poster session presentation for the POD Innovation Award Finalists at the 2017 annual Professional and Organizational Development (POD) Conference, Montreal, Canada.
- Shields, S. M.**, Black, K., Wright, K. B. & Waxman, H. (2017, April). *Teacher home visits and their effect of connecting with students and parents*. Presented at the annual meeting of the American Educational Research Association, San Antonio, TX.
- Singer, E. A. & **Shields, S. M.** (2016, September). *Historical relevance of Austin Hall and the Old Main Building at Sam Houston State University*. Presented at the annual meeting of Organization of Educational Historians, Chicago, IL.

Fowler, D. A. & **Shields, S. M.** (2016, November). *Transform departmental STEM programs utilizing a program (re)design model*. Poster presentation at the 2016 annual Association of American Colleges & Universities' (AAC&U) Transforming Undergraduate STEM Education Conference, Boston, MA.

## **REGIONAL and STATE PRESENTATIONS**

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Fogarty, M., **Shields, S.**, Whiteside, E., & Sallese, M. (2021, May). *Ed prep: Special education webinar*. Presented via Zoom at a Texas Education Agency webinar regarding Texas A&M University's Division of Special Education's Program (Re)Design work.

Montague, M., **Shields, S.**, Zimmer, W., & Jimenez, E. (2020, October). *Best practice in curriculum redesign*. Presented via Zoom at the 2020 annual Consortium of State Organizations for Texas Teacher Education (CSOTTE) Conference.

Whitfield, J., **Shields, S.**, & Herbert, B. (2020, September). *Customizing textbooks without publishers: Empowering MATH faculty to create an open educational resource (OER)*. Presented via Zoom at the 2020 Texas A&M Chancellor's Summit on Academic Technology.

Zimmer, W. K., Asadi, L., **Shields, S. M.**, Wright, K., Suarez, M., Stackhouse, E. & Waxman, H. (2017, June). *The importance of integrating multiple literacies in teacher education programs*. Paper presented at the 2017 annual Texas Association of Teacher Educators Conference, Austin, TX.

Froyd, J. E. & **Shields, S. M.** (2017, April). *Authentic assessment of complex learning outcomes*. Presented at the annual meeting of the Wakonse South Teaching and Learning in Higher Education Conference, Canyon of the Eagles, TX.

**Shields, S. M.**, Black, K., Wright, K. B. & Waxman, H. (2017, February). *Teacher home visits and their effect of connecting with students and parents*. Presented at the annual meeting of the Southwest Education Research Association, San Antonio, TX.

Wright, K. B, **Shields, S. M.**, Black, K., Banerjee, M. & Waxman, H. (2017, February). *The effects of value-added teacher evaluation, grade level, and years teaching experience on teacher job satisfaction, school-level influence, and classroom autonomy*. Presented at the annual meeting of the Southwest Education Research Association, San Antonio, TX.

**Shields, S.** (2016, October). *Fowler program (re)design model for learner-centered curriculum*. Session and poster presentation at the annual Collaborative Educational Programs for the Americas Leadership Conference, San Antonio, TX.

Hammer, J. E., Boettcher, C. K., & **Shields, S. M.** (2015, October). *Developing innovators and leaders in international baccalaureate education*. Presented at the annual meeting of Collaborative Educational Programs for the Americas Leadership Conference, San Antonio, TX.

Ates, B. & **Shields, S.** (2012, February). *Classroom management: From the teacher educator point of view*. Association of Teacher Educators (ATE) Classroom Management and Discipline SIG, San Antonio, TX.

**Shields, S.** (2011, November). *Discipline in the classroom*. Texas State Teachers Association (Student Program) District Convention, College Station, TX.

**Shields, S.** & Persall, J. (2007, August). *Organized 4 success*. Panhandle Math and Science Conference, West Texas A&M University, Canyon, TX.

**Shields, S.** & Richardson, J. (2003, August). *The divine secrets of the yaya math teachers*. Panhandle Math and Science Conference, West Texas A&M University, Canyon, TX.

**Shields, S.** & Raulerson, T. (1999, June). *M&M mathematics*. Conference for the Advancement of Math Teaching, Dallas, TX.

**Shields, S.** & Hammer, M. (1998, November). *Oceanography and the internet*. Conference for the Advancement of Science Teaching, Fort Worth, TX.

**Shields, S.** & Hammer, M. (1997, November). *Navigating your way through earth science resources on the web*. Conference for the Advancement of Science Teaching, Corpus Christi, TX.

## **INSTITUTIONAL PRESENTATIONS**

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Wilkinson, H., Laporte, C., & **Shields, S.** (2022, Spring semester). *Teaching change*. Office of the Dean of Faculties and Center for Teaching Excellence book community, Texas A&M University, College Station, TX.

**Shields, S.**, Aguilar, V., Cobbs, B., & Lyssy, A. (twice a semester 2021, August to 2023, January). *Innovative Learning Classroom Building open house*, Texas A&M University, College Station, TX.

Whitfield, J., **Shields, S.**, Allen, A., Bollinger, K., Coffelt, V., & Orchard, P. (2021, March). *The Department of Mathematics EDGE grant and OER update*, Texas A&M University, College Station, TX.

Laporte, C., & **Shields, S. M.** (2020, October). *(re)Establishing the new "normal"*. Presented both face-to-face and via Zoom for Supervisor Training on behalf of the Academic Affairs Climate and Diversity Committee, Texas A&M University, College Station, TX.

**Shields, S.**, Wu, B., Pellois, J., Tag, A., & Whitfield, J. (2020, October). *Exploring inclusive teaching in large classes*. Presented at the Dean of Faculties' Faculty Conversation Café, Texas A&M University, College Station, TX.



- Allen, A., Bollinger, K., Coffelt, V., Herbert, B., Orchard, P., **Shields, S.**, & Whitfield, J. (2020, April). *Opening the door to math: Making math accessible through open education resources*, TAMU Transformation Teaching & Learning Conference (TTLC), College Station, TX. (Conference cancelled because of COVID)
- Shields, S. M.**, Patterson, C.A., Kurtz, J., & Elizalde, I. (2019, May). *Pioneering educational innovation for the 21st Century Classroom Building*. Presented at the Transformational Teaching and Learning Conference, College Station, TX.
- Parish, J., Lampo, S., Seipp, L., & **Shields, S.** (2019, May). *How to turn student groups into effective teams*. Presented at the Transformational Teaching and Learning Conference, College Station, TX.
- Watson, K., Palsole, S., **Shields, S.**, & Kurtz, J. (2019, May). *Utilizing feedback to drive change in course development and delivery*. Presented at the Transformational Teaching and Learning Conference, College Station, TX.
- Montague, M., **Shields, S.**, & Zimmer, W. (2019, May). *Staying current and relevant through curriculum redesign*. Presented at the Transformational Teaching and Learning Conference, College Station, TX.
- Laporte, C., & **Shields, S.** (2018, November). *Maximizing student engagement*. Instructional Technology Services' Teaching with Technology Lunch Series, Texas A&M University, College Station, TX.
- Wright, K. B., **Shields, S. M.**, Black, K. & Waxman, H. (2017, November). *The effects of teacher home visits on student behavior, student academic achievement, and parent involvement*. Department of Teaching, Learning, and Culture's Brown Bag Lunch, Texas A&M University, College Station, TX.
- Shields, S.** (2014, November). *Classroom management*. Texas State Teachers Association (TAMU Chapter) monthly meeting, College Station, TX.

## **REQUESTED WORKSHOPS and PROGRAMS**

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- Scott, T., Fowler, D., **Shields, S.**, Erukhimova, T., Herzogenrath, J., & Pantuso, T. (2022, November). *Digital design for student success (D2S2) executive leadership retreat*. The Texas Higher Education Coordinating Board. Austin, TX.
- Scott, T., Dorsey, A., & **Shields, S.** (2023, May). *EDGE grant branch location pre-conference workshop*. Texas A&M University, College Station, TX.
- Dorsey, A., **Shields, S.**, & Layne, J. (2023, March). *Curriculum development*. EnMed Engineering Retreat. Texas A&M University, College Station, TX.

- Shields, S.** (2022, September). *Incubating multiversity ideas: Thinking interdisciplinarily*. Texas A&M University at Qatar, Doha, Qatar.
- Shields, S.** (2022, September). *Talking teaching innovation*. Lunch and Learn session, Texas A&M University at Qatar, Doha, Qatar.
- Shields, S.** (2022, September). *Rethinking student participation*. Texas A&M University at Qatar, Doha, Qatar.
- Shields, S.** (2022, March). *How can we create a meaningful syllabus?*. Via Zoom with Texas A&M University at Qatar, Doha, Qatar.
- Shields, S.** (2022, March). *Active student engagement across modalities*. Via Zoom with Texas A&M University at Qatar, Doha, Qatar.
- Kailani, S., & **Shields, S.** (2022, February). *Teaching workshop series*. Guest lecture for ECON graduate students, Texas A&M University, College Station, TX.
- Mahsud, K., & **Shields, S.** (2021, March). *Refine student course evaluations*. Via Zoom with Texas A&M University at Qatar, Doha, Qatar.
- Mahsud, K., & **Shields, S.** (2020, July). *Preparing for face-to-face teaching in the fall*. Via Zoom with Texas A&M University at Qatar, Doha, Qatar.
- Shields, S.**, & Donaldson, J. (2020, March). *Getting started with Zoom training*. Presented, in collaboration between the Center for Teaching Excellence and the Office for Academic Innovation, multiple times over the course of a week to assist faculty in transitioning to remote instruction during the COVID pandemic, Texas A&M University, College Station, TX.
- Shields, S.**, & Donaldson, J. (2020, March). *Getting started with Google Classroom training*. Presented, in collaboration between the Center for Teaching Excellence and the Office for Academic Innovation, multiple times over the course of a week to assist faculty in transitioning to remote instruction during the COVID pandemic, Texas A&M University, College Station, TX.
- Shields, S.** (2019, October). *Active learning in engineering program*. Texas A&M University at Qatar, Doha, Qatar.
- Shields, S.** (2019, October). *Project-based learning*. Texas A&M University at Qatar, Doha, Qatar.
- Shields, S. M.**, & Patterson, C.A. (2019, September). *Lead & learn: Active engagement*. Department of Management, Texas A&M University, College Station, TX.

- Shields, S.** (2019, August). *Scaling-up: Helping a large class feel small*. Engineering Academies, Texas A&M University, College Station, TX.
- Shields, S., & Fowler, D.** (2019, May). *Secondary teacher certification program curriculum mapping*. Department of Teaching, Learning, and Culture, Texas A&M University, College Station, TX.
- Shields, S.** (2019, April). *Team-based learning: The what and the how*. Masters of Public Health Core Program, Texas A&M University, College Station, TX.
- Shields, S., & Kurz, T.** (2019, January). *Team-based learning: The what and the how*. EnMed Program, Texas A&M University, College Station, TX.
- Shields, S., Watson, K., Palsole, S., Baldwin, B.** (once a semester beginning 2018, Fall). *Active learning in engineering program*. College of Engineering, Texas A&M University, College Station, TX.
- Patterson, C. A., Fowler, D. A., & **Shields, S. M.** (2018, October). *Programmatic curriculum rebuilding for post-secondary cultural change*. Presented for Poultry Science graduate student association's special session at Texas A&M University, College Station, TX.
- Shields, S., Watson, K., Palsole, S., Kurtz, J.** (2018, August). *Active learning in engineering program*. College of Engineering, Texas A&M University, Galveston, TX.
- Shields, S., Palsole, S., Watson, K., Fowler, D., Poling, N., Kurtz, J.,...Kelling, R.** (2018, Spring). *Active learning in engineering program*. College of Engineering, Texas A&M University, College Station, TX.
- Layne, J., **Shields, S.,** Zimmer, W. (2018, January). *Getting started with active learning*. College of Nursing, Texas A&M University, College Station, TX.
- Shields, S.** (once a semester beginning 2017, September). *ePortfolios for Learning*. College of Geosciences, Texas A&M University, College Station, TX.
- Malak, R., Raymundo, A., Allaire, D., Fowler, D. (2016, July). *Interdisciplinary frontiers of designing engineering materials systems*. National Science Foundation sponsored workshop, Texas A&M University. (Graduate assistant supporting and researching the event)
- Shields, S., & Hammer, M.** (1999, August). *Dive into adventure*. TOPEX/Poseidon education project. Professional Development Workshop, Texas A&M University, College Station, TX.

## CENTER FOR TEACHING EXCELLENCE PROGRAMMING

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### *Course (Re)Design Institute*

Facilitated by: Jean Layne, Nate Poling, Clint Patterson, and Sam Shields – Center for Teaching Excellence

This interactive session opens with a discussion of James Lang’s article “What will students remember from your class in 20 years?”, asking participants to consider their motivation for attending, how their discipline is changing, and how students are changing. This discussion catalyzes participants reexamining their short- and long-term course goals, as well as drivers for change.

### *Empowering Learners: Managing Student Academic Anxiety through Syllabus Design*

Facilitated by: Jean Layne, Sam Shields, and Adam Smith – Center for Teaching Excellence

Break is a good time to reflect on the semester and adjust for the next. Join peers for a working session on ways to adjust your syllabus to effectively address academic anxiety.

### *Interested in Bringing the Real World into Your Course? Project-Based Learning as a Vehicle for High-Impact Student Learning!*

Facilitated via Zoom by Dr. Jeff Hatala, School of Public Health, and Sam Shields, Center for Teaching Excellence

This interactive session provides an introductory look at Project-Based Learning. Participants will learn to describe how project-based learning improves teaching and student learning, define essential project design elements, and apply a backward design process to the development of projects for students.

### *Juggling Chainsaws while Riding a Unicycle: Effectively Engaging In-Person and Remote Students*

Facilitated via Zoom by Dr. Randy Brooks, Engineering Academy; Dr. Brandis Keller, Biomedical Engineering; Dr. Sharon Matthews, Teaching, Learning, and Culture; and the Center for Teaching Excellence Instructional Consultants

Simultaneously teaching both in-person and remote students is a significant challenge. Health measures like the use of face coverings and social distancing, as well as synchronous remote streaming, make classroom communication, interaction, and engagement especially difficult for both instructors and students. This is a highly interactive session where enthusiastic engagement is expected. By participating in this session, instructors will discover student engagement strategies that peers are utilizing in the blended synchronous format, reflect on the effectiveness of the student engagement strategies that they are utilizing in the blended synchronous format, and identify a student engagement strategy appropriate for implementation in their context.

### *More of Juggling Chainsaws while Riding a Unicycle: Effectively Engaging In-Person and Remote Students*

Facilitated via Zoom by Dr. Margaret Bosenbark, College of Nursing; Dr. Shawna Thomas, Computer Science and Engineering; and the Center for Teaching Excellence Instructional Consultants

Simultaneously teaching both in-person and remote students is a significant challenge. Health measures like the use of face coverings and social distancing, as well as synchronous remote streaming, make classroom communication, interaction, and engagement especially difficult for both instructors and students. This is a highly interactive session where enthusiastic engagement is expected. By participating in this session, instructors will discover student engagement strategies that peers are utilizing in the

blended synchronous format, reflect on the effectiveness of the student engagement strategies that they are utilizing in the blended synchronous format, and identify a student engagement strategy appropriate for implementation in their context.

#### *New Faculty Institute – Active Engagement*

Facilitated by: Sam Shields – Center for Teaching Excellence

This working session assisted new faculty with selecting engagement strategies to support learning outcomes; appreciating the role of active engagement plays in student learning; selecting what, where, and how to incorporate active engagement; and identifying active engagement methods and plan implementation.

#### *Preparing for Face-to-Face Teaching in Fall 2020*

Facilitated via Zoom by Dr. Wendi Zimmer, Division of Sport Management; Regina Greenwood, Director of Instructional Media Services; and Sam Shields, Center for Teaching Excellence

This workshop provides blended synchronous class session engagement strategies, as well as application examples, ready for immediate course integration. After this session, participants will be able to explain the institutional requirements for Fall 2020 face-to-face courses, identify methods to facilitate student engagement activities in a blended synchronous session, and begin planning a personalized instructional plan for facilitating Fall 2020 face-to-face class sessions

#### *Promoting Active & Inclusive Engagement in the Classroom*

Facilitated by: Jean Layne, Nate Poling, Sam Shields, and Adam Smith – Center for Teaching Excellence

This interactive session focuses on different methods and approaches to motivating and engaging students in the learning process to help ensure their success. Participants will learn more about today's students as well as best practices with regards to diversity and inclusive teaching. They will also explore ways of how they can incorporate, manage, and assess active learning techniques.

#### *Teaching With and Managing Interactive Methods*

Facilitated by Dr. Catharina Laporte, Anthropology, and Sam Shields, Center for Teaching Excellence

This interactive session focuses on ways to enhance teaching by incorporating learner-centered instructional approaches into the classroom. Participants will experience interactive teaching in action as different methods and approaches (problem-based learning, active learning, and collaborative learning) are modeled and demonstrated. The session will also include a brief discussion of how to address potential challenges when using the various teaching methods.

## **GRANT PROPOSALS and CONTRACTS**

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**Co-PI:** Merging Three Colleges Grant: *Critical Teaching Friends*, \$10,000, Texas A&M University, 2022-2023.

**Functional Lead:** Texas Higher Education Coordinating Board's Interagency Contract *Digital Design for Student Success* Project, \$650,000, 2022. Invited by Interim Provost and Chief Academic Officer, Timothy Scott, based on my expertise to co-lead and facilitate the contract work of three faculty teams working on the project.

**Senior Personnel:** Department of Energy – Office of Energy Efficiency and Renewable Energy; Buildings Energy Frontiers & Innovation Technologies: *Development and Validation of Smart Building Technology Modules for Academic and Professional Education*, \$750,000, Slipstream Group, Inc., Texas A&M University, Society of Building Science Educators, and National Institute of Building Sciences, 2022 – 2024.

**Senior Personnel:** NSF: *Building Capacity to Develop a Collaborative Research Agenda on Project-Based Learning as a Mechanism for Program and Institutional Transformation*, \$299,576, NSF-IUSE, Worcester Polytechnic Institute, Bellevue College, and Texas A&M University, 2020-2023.

**Senior Personnel:** *Widening Access for all Students in MATH 140 and MATH 142 with Low- or No-cost Open Education Resources*, \$100,000, Open Education Resource Grant, Texas A&M University, June 2019 – May 2022.

**Senior Personnel:** *Increasing Student Success in Gateway Courses for the Applied Calculus Course Sequence*, \$290,500, Enhancing the Design of Gateway Experiences (EDGE) Grant, Texas A&M University, January 2019 – May 2022.

## LEADERSHIP

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| Fall 2021      | Secured, planned, and facilitated Bryan Dewsbury’s <i>Inclusive Teaching Practices in Higher Education</i> two-day Texas A&M workshop series  |
| 2021 – present | GEAR UP Grant Advisory Board member   |
| Spring 2021    | <i>Verified Certificate</i> , edX – Columbia University’s <i>Inclusive Teaching: Supporting All Students in the College Classroom</i> MOOC  |
| Fall 2020      | <i>Selected Participant</i> , Workshop on Evaluating Teaching, an NSF sponsored working conference hosted by The Association of Public and Land-grant Universities (APLU) and its Network of STEM Education Centers (NSEC), along with the Transforming Higher Education – Multidimensional Evaluation of Teaching (TEval) Project. |
| 2020 – present | <i>Instructor Contact</i> , Innovative Learning Classroom Building, Texas A&M University, College Station, TX.  |
| 2019 – present | <i>Liaison</i> , TAMU at Qatar’s Center for Teaching and Learning in Doha   |
| Spring 2019    | <i>Committee Member</i> , Mathematics Foundational Component Area’s Core Curriculum Faculty Committee, Texas A&M University, College Station, TX.   |
| 2018 – 2021    | <i>Task Force Member</i> , Innovative Learning Classroom Building Taskforce, Texas A&M University, College Station, TX.   |

- 2018-2019 *Conference Committee Member, Transformation Teaching and Learning Conference, Texas A&M University, College Station, TX.*
- Summer 2018 *Workshop Coordinator, Project-Based Learning Workshop Offered by the Center for Project-Based Learning at Worcester Polytechnic Institute, Center for Teaching Excellence, Texas A&M University, College Station, TX.*
- Spring 2017 *Selected Participant, How Many Hats Do You Wear? Building Research Capacity for STEM Faculty Development, an NSF sponsored working conference, Clemson University, Clemson, SC.*
- 2017 – 2020 *Project Management Team Member, Active Learning in Engineering Program, Texas A&M University, College Station, TX.*
- 2016-2017 *Conference Co-coordinator, Wakonse South Teaching and Learning in Higher Education Conference, Center for Teaching Excellence, Texas A&M University, College Station, TX.*
- Fall 2016 *Panel Respondent, Panel of Leaders, Collaborative Educational Programs for the Americas Conference, San Antonio, TX.*
- Spring 2016 *Selected Participant, Teaching for Equity, Action, and Change in Higher Education, Division K Seminar for Advanced Graduate Students, American Education Research Association’s Special Seminar, Washington, DC.*
- Spring 2016 *Selected Participant, Aggies Invent, Collaborative Event between the Colleges of Engineering and Education, Texas A&M University, College Station, TX.*
- 2015-2016 *Member, Advisory Council, Collaborative Educational Programs for the Americas Conference, San Antonio, TX.*
- Fall 2015 *Member, Think Tank, Texas A&M University, College Station, TX.*

## **PROFESSIONAL DEVELOPMENT**

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- Spring 2023 Faculty Productivity Partnership
- February 2020 Myers Briggs Training
- July 2019 StrengthsQuest Training
- July 2019 OUCH!: Your Voice Makes a Difference

- Summer 2019 Institution Team Member, AAC&U's Teaching to Increase Diversity and Equity in STEM (TIDES), Los Angeles, CA.
- Summer 2018 Institution Team Member, Worcester Polytechnic Institute, in collaboration with AAC&U, Institute on Project-Based Learning, Worcester, MA.

## **SERVICE**

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- Spring 2023 *Reviewer*, Presidential Meritorious Service Award, Texas A&M University, College Station, TX.
- 2022 – present *Member – ex-officio*, University Curriculum Committee, Texas A&M University, College Station, TX.
- Fall 2021 *Member*, Search Committee Senior Instructional Consultant, Center for Teaching and Learning, Texas A&M University at Qatar, Doha, Qatar.
- 2017-2018 *Mentor*, New Graduate Assistant – Non-Teaching, Center for Teaching Excellence, Texas A&M University, College Station, TX.
- 2016-2017 *Mentor*, New Graduate Assistant – Non-Teaching, Center for Teaching Excellence, Texas A&M University, College Station, TX.
- 2015-2016 *Mentor*, First Year Ph.D. student mentor, Department of Teaching, Learning, and Culture, Texas A&M University, College Station, TX.
- Spring 2016 *Developer and Facilitator*, TLAC Reboot Freshman Orientation Event, Department of Teaching, Learning, and Culture, Texas A&M University, College Station, TX.
- Fall 2015 *Developer and Facilitator*, TLAC Gig'Em Week Freshman Orientation Event, Department of Teaching, Learning, and Culture, Texas A&M University, College Station, TX.
- Fall 2015 *Member*, Search Committee Teacher Education Tenure-Track Professor, Department of Teaching Learning and Culture, Texas A&M University, College Station, TX.
- 2013-2015 *Member*, Curriculum Realignment Committee, Department of Teaching, Learning and Culture, Texas A&M University, College Station, TX.
- 2012-2016 *Course Lead – TEFB 371/471*, Department of Teaching, Learning and Culture, Texas A&M University, College Station, TX.



## REVIEWER

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- 2018 Professional and Organizational Development Network in Higher Education, annual conference peer-reviewer
- 2018 American Educational Research Association, annual conference peer-reviewer
- 2017 American Educational Research Association, annual conference peer-reviewer
- 2016 Southwest Education Research Association, annual conference peer-reviewer
- 2016 Learning Environments Research: an International Journal

## AWARDS

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- 2022 *President's Meritorious Service Award*, Texas A&M University, College Station, TX. (\$1000)
- 2017 *Research Scholars Award*, Department of Teaching, Learning & Culture, Texas A&M University, College Station, TX. (\$500)
- 2016 *Research Scholars Award*, Department of Teaching, Learning & Culture, Texas A&M University, College Station, TX. (\$500)
- Spring 2016 *Open Classroom Scholarship*, Department of Teaching, Learning & Culture, Texas A&M University, College Station, TX. (\$500)
- Spring 2016 *Conference Travel Award*, Department of Teaching, Learning & Culture, Texas A&M University, College Station, TX. (\$350)
- Fall 2015 *Open Classroom Scholarship*, Department of Teaching, Learning & Culture, Texas A&M University, College Station, TX. (\$500)
- 2013 *Fish Camp Namesake*, Texas A&M University, College Station, TX.
- 2012 *Student-Led Award for Teaching Excellence*, Texas A&M University, College Station, TX.

## PROFESSIONAL AFFILIATIONS

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Professional and Organizational Development Network in Higher Education  
American Educational Research Association  
Texas Association of Teacher Educators  
Kappa Delta Pi  
Phi Delta Kappa