

Dr. Celil Ekici's Curriculum Vitae

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EDUCATION **Ph.D. in Mathematics Education** (Dec, 2010) University of Georgia, Athens, GA.

- Thesis Title: *Treatments of Trigonometric Functions During Reforms in the United States* (Advisor, Regents Prof. Dr. J. Kilpatrick)

M.Sc. in Math (July, 1995) from Middle East Tech. Univ.(METU), Ankara, Turkey.

- Thesis Title: *Dynamics of Structured Populations and Optimal Harvesting Model* (Advisors: Prof. Dr. O. Çelebi and Prof. Dr. B. Kaymakçalan.)

B.S. in Mathematics Education (June, 1993) with Honors from METU

B.S. in Mathematics (June, 1993) with Honors from METU

Diploma (June, 1989) Atatürk High School of Science for gifted, Istanbul, Turkey

Online Teaching Certificates(Spring 2013, Fall 2017).

Spring 2013 Online Instructor Training from University of California Irvine as the initial cohort of Online/hybrid instructors.

Fall 2017. Certificate for Online Course Design and Development; the Certificate of Course Delivery from TAMUCC ODELT.

WORK EXPERIENCES

- August 2017–: Assistant Professor of Mathematics, Dept. of Mathematics and Statistics, *Texas A&M University- Corpus Christi*
- August 2014- July 2017, Founding Research Director of *VI Institute for STEM Education Research and Practice*, US Virgin Islands
- August 2012- July 2017: Assistant Professor of Mathematics, Department of Mathematical Sciences, *University of Virgin Islands, St. Croix*, U.S. Virgin Islands
- Feb 2011-2012, Research Associate, Evirx, Athens, Georgia on evidence based teacher performance assessment
- January 2009-May 2009, Graduate Research Assistant (GRA), University of Georgia (UGA), the Office of STEM Education & Teacher Quality.

- Oct 2005–Dec 2007, Grad. Research Assistant for Learning & Performance Support Lab, UGA:
- Oct 2000–September 2005, Researcher/Instructor, METU, Department of Secondary Science and Mathematics Education, Ankara.

PROFESSIONAL
INTERESTS:
TEACHING
AND
RESEARCH

- ***Teaching***

For Texas A&M University- Corpus Christi

SMTE1351-Fundamentals of Mathematics II- Elementary Numbers, Statistics and Probability. (Fall 2017, Fall 2018)

SMTE3352 Fundamentals of Mathematics III- Elementary Geometry. (Fall, 2017; Spring 2018, Summer 2018; Fall 2018; Spring 2019)

SMTE1351-Fundamentals of Mathematics I- Number Systems (Summer 2018)

MATH 1316 Trigonometry (Spring 2018, Fall 2018, Spring 2019)

MATH 3312 College Geometry (Spring 2019)

Mathematics Courses for University of Virgin Islands

Calculus I(Fall, 2012; Fall 2013; Fall 2016), Precalculus (Fall 2015) Precalculus II, Trigonometry (Spring 2017) ; Calculus II(Spring 2013 & Spring 2014),

Discrete Mathematics (Fall 2012, Fall 2014, Fall 2015) ; Number Theory (Spring, 2015; Spring 2016; Spring 2017)

Foundations Math I (Fall 2012, Fall 2013, Fall 2014; Fall 2016); Foundations Math II(Spring 2013, Spring 2015) Developmental Mathematics Program.

For Masters in Mathematics Program for Secondary School Teachers, Univ. of Virgin Islands:

Action Research for Teachers (Spring 2014, Spring 2016, Fall 2016, Spring 2017 UVI); History and Philosophy of Mathematics (Spring 2014, UVI).

Theories of Mathematics Learning (Spring 2016, UVI); Topics II in Secondary Mathematics Teaching (Fall, 2013, UVI)

Probability for Teachers (*Online* - Summer, 2013, UVI); Topics I in Secondary Mathematics Teaching (Spring 2013, Summer 2017, UVI),

Seminar in Teaching Secondary Mathematics(Spring 2013, UVI)

For Middle East Technical University, Turkey and Univ. of Georgia, Athens, GA, USA:

Practice Teaching in Secondary Education, (Fall 2002, 2003, METU); Analysis of Secondary Education Textbooks,(Spring 2003, METU)

School Experience in Secondary Education, (Fall 2001, METU); Curriculum Dev. in Science/Math Education, (Spring 2001, METU)

Methods of Mathematics teaching, team taught with Dr. Bulut (Fall 2000, METU);

Teaching and Learning Secondary School Mathematics with a special emphasis on teaching functions. (Fall 1998 as a teaching assistant for Dr. Thomas Cooney, UGA)

Problems of Secondary Math Teaching (Spring 1999, TA for Dr. T. Cooney, UGA)

Technology and Sec. School Mathematics.(Spring 1999, TA for Dr. Jim Wilson, UGA)
 Project in Math Education (Spring 1998& Summer 1999 team taught with Dr. Bulut, METU); School Experience (team taught with Dr. Sencer, Spring 1995, METU)
 Integrating Instructional Technologies in Teaching Mathematics: LOGO and CABRI. (Workshop for Secondary Mathematics Teachers, Fall 1994, TUBITAK/BILTEM, Information Technologies & Electronics Research Institute, Ankara, Turkey).
 Computer Applications in Education (Lab Instructor)(Fall 1994, METU); Computer Applications in Education (Lab)(Fall 1993, METU)
 Geometry for Teachers, as instructor, supervised by Dr. Y. Aydin (Spring 1994, METU)

PROFESSIONAL
 INTERESTS:
 RESEARCH

- *Inquiry-based Learning and Teaching K-16 Mathematics*
 - Scholarship of practice with IBL and integrated STEM learning
 - *Research in Undergraduate Mathematics Education* on inquiry based teaching & learning trigonometry, calculus, differential equations,
 - Modeling IBL practices for Mathematics Teacher Education
- *Mathematical Modeling in K-16 for mathematics and integrated STEM education*
 - Culturally responsive mathematics modeling and integrated STEM Education
 - integrating STEM learning with coding, computing, and data modeling
 - *Modeling Population Dynamics and Control* with multiplistic validation using continuous, discrete, deterministic and stochastic approaches,
- *History and Phenomenology of Trigonometry in School and Collegiate Mathematics:* Curriculum and textbook analysis;

PEER
 REVIEWED
 PUBLICATIONS

- Alagoz, C., & **Ekici, C.** (In Press). Cognitive Diagnosis Modelling for Mathematical Modelling Assessment. In G. A. Stillman, J. Brown et al (Eds). Book Series on Teaching and Applying Mathematical Modelling. Chichester: Horwood Publishing
- **Ekici, C.**, Alagoz, C. (In Press). Embodied Phenomenology in Mathematical Modeling of Sailing for Integrated STEM Learning. In G. A. Stillman, J. Brown et al (Eds). Book Series on Teaching and Applying Mathematical Modelling. Chichester: Horwood Publishing
- **Ekici, C.**, & Plyley, C. (In Press). Inquiry based modeling of population dynamics with logistic differential and difference equations. *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies*.
<https://doi.org/10.1080/10511970.2018.1484399>

- **Ekici, C., Plyley, C., Alagoz, C., Gordon, R., & Santana, N. (2018).** Integrated Development and Assessment of Mathematical Modeling Practices for Culturally Responsive STEM Education. ICEMST 2018: International Conference on Education in Mathematics, Science and Technology. *The Eurasia Proceedings of Educational & Social Sciences (EPESS)*, vol.9, pp.1-10, 2018.
<http://dergipark.gov.tr/epess/issue/38900/454472>
- Plyley, C. & **Ekici, C. (2018).** Developing strategic competence with representations for growth modeling in calculus. In (Eds.) A. Weinberg, C. Rasmussen, J. Rabin, M. Wawro, and S. Brown, Proceedings of the 21st Annual Conference on Research in Undergraduate Mathematics Education, San Diego, California. Feb 22-24, 2018(pp.1102-1109).
<http://sigmaa.maa.org/rume/RUME21.pdf>
- Greenstein, S., **Ekici, C. (2017).** At the Intersection of Teaching and Cultural Diversity: Modeling a Culturally Responsive Mathematics Pedagogy for the U.S. Virgin Islands. *Journal of Mathematics and Culture*, 11 (4), 39-82. Double Blind Peer ? Reviewed Journal Sponsored by the North American Study Group on Ethnomathematics with International Board of Reviewers.
- **Ekici, C., & Gard, A. (2017).** Inquiry based approach to transcendental functions in calculus. *PRIMUS. Problems, Resources, and Issues in Mathematics Undergraduate Studies*. 27 (7), 681-692.
<http://dx.doi.org/10.1080/10511970.2016.1214654>.
- Bulut, S. , **Ekici, C., & İşeri, A. İ., & Helvacı, E.,(2002).** A Scale for Attitude towards Geometry. *Eğitim ve Bilim [Education and Science]*, 27, 3-7.
- Hendricks, N. J., **Ekici, C., & Bulut, S. (2000).** *Adaptation of Motivated Strategies for Learning Questionnaire, MSLQ: Öğrenmeye Yönelik Stratejiler Anketi, ÖYSA.* Ankara, Turkey: Middle East Technical University.
- Bulut, S., **Ekici, C., & İşeri, A. İ. (1999).** Bazı olasılık kavramlarının öğretimi için çalışma yapraklarının geliştirilmesi [Development of worksheets for teaching certain probability concepts] . *Hacettepe University Faculty of Education Journal*, 15, 129–136.
- Bulut, S., Cankoy, O., **Ekici, C. & İşeri, A. İ. (1997).** Olasılık kavramlarının öğretimi üzerine öğrenci çalışma yaprakları [Student worksheets on teaching probability concepts]. In A. Baki, & A. Bell (Ed.), *Ortaöğretim Matematik Öğretimi [Secondary Mathematics Teaching]*,(Vol.2, pp. 10.7 -10.14). Ankara: Council of Higher Education.
- Bulut, S., **Ekici, C., İşeri, A. İ.& Yenal, E. (1997).** Geometri kavramlarının öğretimi üzerine öğrenci çalışma yaprakları [Student worksheets on teaching geometry concepts]. In A. Baki, & A. Bell (Ed.), *Ortaöğretim Matematik Öğretimi [Secondary Mathematics Teaching]*, (Vol. 2, pp. 8.28 - 8.29). Ankara: Council of Higher Education.
- Bulut, S., Cankoy, O., **Ekici, C., & İşeri, A. İ. (1997).** *Effects of cooperative learning on eighth grade students' probability achievement.* 7th European

Conference for Research on Learning and Instruction, p.46. Athens, Greece.
Ekici, C., Çelebi, O., & Kaymakçalan, B. (1995). *Dynamics of age-structured population with n-interacting subpopulations. Preprint Mathematics, 100/95.* Middle East Technical University, Ankara.

WORK IN
PROGRESS

Ekici, C. , Plyley, C. Developing strategical competence with representations using discrete and continuous methods in modeling population dynamics in calculus. *International Journal of Research in Undergraduate Mathematics Education.*

Ekici, C, Plyley, C., & Alagoz, Ç. Modeling **Ekici, C., & Alagoz, Ç. .** *STEM Professional Identity and Community with Culturally Responsive Teaching Practices using Integrated STEM Projects.* University of the Virgin Islands, VI Institute for STEM Education Research and Practice.

and assessing interdisciplinary learning expectations and outcomes on population dynamics with STEM circles. *International Journal of STEM Education.*

Ekici, C. Design-based Grounding of Learning Situations for STEM Teachers' professional identity development: STEM REALMS approach. *Journal of STEM Teacher Education.*

Ekici, C. *A study of coherence in defining trigonometric functions across their framings in secondary schools and college.*

Ekici, C., Alagoz, C., Greenstein, S., & Powell, A. *Culturally Responsive STEM education for Underrepresented Populations and Communities.*

Ekici, C.. *Phenomenology of School Mathematics with Progressive De-sedimentation of Core Founding Ideas for Trigonometric Functions in Lived/Manifested Practices*

Ekici, C., Çelebi, O., & Kaymakçalan, B. (Preprint). *Optimal harvesting and control of multidimensional large systems with nonlinear age-structured interacting subpopulations.*

PEER
REVIEWED
PRESENTA-
TIONS

1. Ekici, C. (2019 March). *Building coherence in circle and complex trigonometry with inquiry based modeling.* Accepted to be Presented at Conference on Research in Undergraduate Mathematics Education, Feb 28-March2, 2019. Oklahoma.
2. Ekici, C., Britt, S., & Huang, M. (2018 November). *Animated Learning of Coding and Mathematics with Interdisciplinary Learning Communities.* Presented at National Learning Communities Conference, NLCC. Bay City, Michigan
3. Ekici, C., Alagoz, C., Bernard, J., & Wilkins, A.M. (2018 October) *Developing and Assessing Integrated STEM learning outcomes in green homes project focusing on energy conservation.* Presented at Annual International STEM Education Association(ISEA) STEM-Exposition and Conference. Branson, MO.
4. Gordon, R., Santana, N., Rosado, I., Ekici, C. (2018 October). *Eat to beat campaign for critically conscious community based STEM learning.* To be presented at Annual International STEM Education Association(ISEA) STEM-Exposition and Conference. Branson, MO.

5. Lawrence, S., & Ekici, C. (2018 October). *Mathematical Modeling of Environmental impact of Improper Solid Waste Disposal in the Virgin Islands*. Presented at the Annual International STEM Education Association(ISEA) STEM-Exposition and Conference. Branson, MO.
6. Ekici, C. (2018 June). *Strategic competence with representations in modeling inquiry based learning of radicals*. Presented in National IBL&T Conference (June 1st). Austin, TX.
7. Ekici, C., Alagoz, C. (2018, March) *Experimental Modeling of Aerodynamics and Hydrodynamics of Sailing for Interdisciplinary Mathematics Learning*. Presented at Coastal Bend Mathematics & Statistics Conference (CBMSC) (March 31st). TAMUCC.
8. Plyley, C. & Ekici, C. (2018). Developing strategic competence with representations for growth modeling in calculus. Presented at Conference on Research in Undergraduate Mathematics Education, Feb 22-24, 2018. San Diego, CA.
9. Alagoz, C., & Ekici, C., (2018). *Teachers Validity Arguments for Mathematical Modeling Competency Measures and Connections*. Presented at the 2018 Annual Association of Mathematics Teacher Educators Conference, February 8-10. Houston, TX.
10. Ekici, C. (2018, March). *Experimental Modeling of Aerodynamics and Hydrodynamics of Sailing for Interdisciplinary Mathematics Learning*. Coastal Bend Mathematics & Statistics Conference. Texas A&M Corpus Christi.
11. Ekici, C., Plyley, C., Alagoz, C. , & Gordon, R. (2018 April). *Integrated development and assessment of mathematical and scientific modeling practices for culturally responsive STEM education*. Presented at the International Conference on Education in Mathematics, Science & Technology (ICEMST). (April 28 - May 1, 2018). Marmaris, Turkey.
12. Plyley, C. & Ekici, C. (2018 Feb). *Developing strategic competence with representations for growth modeling in calculus*. Presented at Conference on Research in Undergraduate Mathematics Education, Feb 22-24, 2018. San Diego, CA. (peer reviewed manuscript accepted to be published in proceedings)
13. Alagoz, C., & Ekici, C. (2017, July). *Loglinear Cognitive Diagnosis Models for Mathematical Modeling Assessment*. Presented at the 18th International Conference on the Teaching of Mathematical Modelling and Applications, Cape Town, South Africa.
14. Ekici, C.& Alagoz, C. (2017, July). *Inquiry-Based Mathematical Modeling behind Sailing for Integrated STEM Learning*. Presented at the 18th International Conference on the Teaching of Mathematical Modelling and Applications, Cape Town, South Africa.
15. **Ekici, C.**, & Plyley, C. (2017 January). *Inquiry based Calculus with Difference: Continuous and Discrete Modeling of Mathematics in Population Growth*. Presented at Joint Mathematics Meetings, Atlanta, GA.
16. **Ekici, C.**, Plyley, C., & Alagoz, Ç. (2017 January). *Math Circles for integrated STEM learning communities* . Presented at the Annual Joint Mathematics Meetings. Atlanta, GA.
17. Wilkins, A. L., Bernard, J., Polimis, J., & **Ekici, C.** (2016).Green Homes for Integrated STEM Research. Presented at International STEM Education Association Meeting Branson MO.
18. Henry, M., Gibbs, A.M., Theophilus, D., & **Ekici, C.** 2016, October). *Integrated STEM Learning Through Modeling Water Runoff*. Presented at International STEM Education Association Meeting Branson MO.

19. Gordon, R., Santana, N., Acosta, A. A., & **Ekici, C.** (2016, October). Critical Study & Community Based Approaches to Lionfish Problem for a Culturally Responsive STEM Education in the Caribbean. Presented at International STEM Education Association Meeting Branson MO.
20. **Ekici, C.**, & Alagoz, C. (July 2016). Collaborative action research with STEM Teachers on mathematical modeling of water quality. Paper presented at *13th Meeting of International Society of Mathematics Education*. Hamburg, Germany.
21. Alagoz, C., & **Ekici, C.** (July 2016). Evidence based placement into developmental math sequence and a model for individualized learning progression. Paper presented at *13th Meeting of International Society of Mathematics Education*. Hamburg, Germany.
22. **Ekici, C.**(January 2016). Technology Integration Practices and Praxis using PBL with Culturally Responsive Cross-curricular STEM themes. Paper review with the CITE Editors during the AMTE 2016 Meeting.
23. Greenstein, S., & **Ekici, C.**. (2015, April). *At the Intersection of Inquiry and Cultural Diversity: Modeling a Contextually Situated, Culturally Resonant Pedagogy*. 2015 AERA Annual Meeting. Chicago, IL.
24. **Ekici, C.**, & Gard, A. (2015, Jan). *Inquiry-Based Learning of Transcendental Functions in Calculus I and II*. To be presented at AMS&MAA Joint Mathematics Meetings. San Antonio, Texas.
25. Greenstein, S., **Ekici, C.**, & Wooten, T. (2014, Nov). *An Analysis of Locally Effective Practices towards Developing a Contextually Situated Stem Teacher Education Program*. Paper presented at the International Society of Educational Research World Conference on Mathematics, Science, & Technology Education, Cappadocia, Turkey.
26. **Ekici, C.**, & Alagoz-Ekici, Ç. (2014, Nov) *Diagnostic Classification for Student-based Instructional Support in Developmental Mathematics*. Poster presented at the International Society of Educational Research World Conference on Mathematics, Science, & Technology Education, Cappadocia, Turkey.
27. **Ekici, C.** (2013, September). *Population dynamics for larger systems with nonlinear age-structured n-coupled sub-populations*. Paper presented in the 33rd Southeastern-Atlantic Regional Conference on Differential Equations (SEARCDE)(Sept 21-Sept 22). University of Tennessee, Knoxville, Tennessee.
28. **Ekici, C.** (2012, October). *Design based grounding of REALMs for mathematics teachers' professional identity development*. Paper presented at the 37th Annual Meeting of the Georgia Educational Research Association (GERA) (October 18-20). The Coastal Georgia Center, Savannah, Georgia.
29. **Ekici, C.** (2011). *Phenomenology of trigonometric functions in functional and differential equation frames*. Paper presented in the 31st Southeastern Atlantic Regional Conference on Differential Equations (Sept 30-Oct 1), Georgia Southern University, Statesboro, GA.
30. **Ekici, C.** (2007). *Demands of tasks in teaching with reform curricula*. Paper presented at Georgia Mathematics Teacher Educator Conference, October 17. RockEagle, Georgia.
31. Recesso, A., Templin, S. E., **Ekici, C.**, & Cohen, A. (2007). *Evidential reasoning in teacher assessment*. Poster presented at the Society for Judgement and Decision Making Meeting at Long Beach, California.

32. **Ekici, C.** (2005). *Bringing sound into classroom: Mathematical modeling of vibration and acoustics*. Paper presented at the 12th International Conference for Teaching Mathematics Modeling and Its Applications, July 2005, London, UK.
33. **Ekici, C.** (2005). *Problem recontextualization, mathematical and pedagogical analysis in preservice learning to teach mathematical modeling*. Paper presented at the 12th International Conference for Teaching Mathematics Modeling and Its Applications, July 2005, London, UK.
34. Çetin, G., Ertepinar, H., & **Ekici, C.** (2004). *Conceptual change approach and students' levels of understanding of ecological concepts*. Poster presented at the 4th European Symposium on Conceptual Change, National and Kapodistrian University of Athens, Delphi, Greece.
35. Bulut, S., İşeri, A. İ., **Ekici, C.**, & Helvacı, E. (1998, September). *Development of geometry attitude scale*. 3rd National Science Education Symposium, Trabzon, Turkey.

INVITED PRE-
SENTATIONS

1. Ekici, C. (2018 July). *Accountable and Interdependent Mathematics Talk through Games*. Invited talk presented in Supporting and Sustaining Scholarly Mathematics Teaching Workshop(S3MT)(July 18). Connecticut: University of Hartford.
2. Ekici, C. (2015, October & 2016, October). *Mathematical sciences towards 2025: Fueling Discovery and innovation*. Freshmen Development Seminar. St. Croix, VI: UVI Albert Sheen Campus.
3. **Ekici, C.** (2012, March 20th). *Phenomenology of trigonometric functions during reforms in school mathematics in the United States*. Florida International University, Miami, Florida.
4. **Ekici, C.** (2012, March 7th) *Phenomenology of trigonometric functions during reforms in school mathematics in the United States*. University of Southern Mississippi, Hattiesburg, Mississippi.
5. **Ekici, C.** (2012, April 19). *Founding ideas and technologies in integrating algebra, geometry, and trigonometry*. University of Virgin Islands, St. Croix, USVI.
6. **Ekici, C.** (2012, March 7th). *i^i is real –Algebra and Geometry of complex numbers*. University of Southern Mississippi, Hattiesburg, Mississippi.
7. **Ekici, C.** (2011, September 13th). *Modeling patterns of growth: Exponential functions and logarithms*. Winona State University, Winona, Minnesota.

LOCAL PRE-
SENTATIONS
WITH STEM
TEACHERS,
FACULTY, AND
LEARNING
COMMUNITIES

1. Ekici, C., and Alagoz, C. (April 2017) *Developing Professional Learning Communities for Culturally Responsive STEM Education and Research on Their Practice*. Presented at the Annual VI EPSCoR Research Conference: Transforming Research into Economic Development, 7 April 2017, University of the Virgin Islands, St. Thomas.

2. Hodge, K., Dureece Byrde, Mojanian Denis, Ann Marie-Gibbs, Michael Henry, Celil Ekici. (2017, April). *Water Runoff and Storage Project.*, Annual VI EPSCoR Research Conference: Transforming Research into Economic Development, 7 April 2017, University of the Virgin Islands, St. Thomas.
3. **Ekici, C.**, & Plyley, C. (2017 April). *Population Dynamic Modeling and Control with Discrete and Continuous Models in Calculus*, UVI Research Day, 8 April 2017, Great Hall, University of the Virgin Islands, Albert A. Sheen Campus.
4. Alagoz, C. & **Ekici, C.** (2017 April). *Individualized Math Progress Map*. UVI Research Day, April 8th, Great Hall, University of the Virgin Islands, Albert A. Sheen Campus.
5. **Ekici, C.**, White, R., & Boneque, J. (2016, October 24). *Mentoring and Leadership for Integrated STEM learning with project based approach*. Presented at American Federations of Teachers (AFT): Teach Annual Conference. Kingshill, USVI: Technical Education Center (CTEC) and St. Croix Educational Complex.
6. Henry, M., Gibbs, A-M, Theophilus, D., Lawrence, S., **Ekici, C.**, Hewitt, T., James, K. (2016, October 24). *Integrated STEM Learning–Modeling the Runoff, Storage, and Quality of the Water*. Presented at American Federations of Teachers (AFT): Teach Annual Conference. St. Croix Career & Technical Education Center (CTEC) and St. Croix Educational Complex.
7. Lawrence, S., James, D., **Ekici, C.**, White, R., & Gordon, K. (2016, October) Environmental impact of Waste Bin sites in St. Croix Heavy Metal Presence and Dissemination. Presented at American Federations of Teachers (AFT): Teach Annual Conference. St. Croix Career & Technical Education Center (CTEC) and St. Croix Educational Complex.
8. Santana, N., Gordon, R., & **Ekici, C.** (2016, October). Integrated STEM behind the study of Lionfish and their Invasion, and community based solutions . Presented at American Federations of Teachers (AFT): Teach Annual Conference. St. Croix Career & Technical Education Center (CTEC) and St. Croix Educational Complex.
9. Wilkins, A. L., Bernard, J., & **Ekici, C.** (2016, October) *STEAM ahead with Green Homes for learning natural, Social and Mathematical Sciences*. Presented at American Federations of Teachers (AFT): Teach Annual Conference. USVI: St. Croix Educational Complex.
10. **Ekici, C.**(2016 October). STEM professional learning community mentoring of tracking field for Integrated STEM Education. Lesa Jourden, Nubeltha Martinez, Charlene Nelson, Dante Andrada as Active Learning of Math and Science Behind the Golden Athletes at the Annual Teach Conference by American Federations of Teachers (AFT): St. Croix Educational Complex.
11. **Ekici, C.**, Alagoz, C., Gibbs, M., Henry, M., Theophilus, D. (2016 April). Roundtable discussion on *Collaborative action research on mathematical modeling of water quality with STEM teachers*. UVI Research Day, April 15th. St. Croix, USVI: Albert Sheen Campus.

12. **Ekici, C.**, Gibbs, A.M., Henry, M., Theophilus, D., & Alagoz, C. (2016 April). *Integrated STEM Learning Through Mapping and Modeling Water Runoff, Water Storage and Supply around St. Croix*. 2016 VI-EPSCoR Annual Research Conference Understanding Our Sea, Our World, April 8th. St. Thomas, VI: UVI Campus.
13. Gordon, R., Santana, N., Acosta, A., & **Ekici, C.** (2016 April). *Critical Study and Constructive Approaches to Lionfish Invasion for a Culturally Responsive STEM Education in the Caribbean*. VI-EPSCoR Annual Research Conference Understanding Our Sea, Our World, April 8th. St. Thomas, USVI: UVI Campus.
14. Tyson, K., Williams, J., Nelson, K., & **Ekici, C.** (2016 April). *An Interdisciplinary Teacher Collaboration to Engage Students in STEM Learning with Robotics in the Virgin Islands*. VI-EPSCoR Annual Research Conference Understanding Our Sea, Our World, April 8th. V.I.: St. Thomas, UVI Campus.
15. Wilkins, A. L., Bernard, J., & **Ekici, C.** (2016 April). *Green Homes for Integrated STEM Research*. 2016 VI-EPSCoR Annual Research Conference Understanding Our Sea, Our World, April 8th. V.I.: St. Thomas, UVI Campus.

WORKSHOPS,
AND
MENTORING

- Ekici, C. (June 6, 2019). (Invited workshop leader) (On Scholarship of Teaching and Learning Inquiry Based Mathematics. National Inquiry Based Learning and Teaching Conference. Denver, Colorado.
- Ekici, C. (July 2-Jul 12, 2018). Facilitated STEM Workshop on Mentoring teacher research, integrated project-based STEM learning and assessments. St. Croix, USVI: The University of Virgin Islands. (Mentor and Facilitator)
- May 2013-July 2017: Founding research Director of VI Institute for STEM Education research and practice: Programming professional development workshops and yearlong activities for secondary STEM teachers (Directed)
- *Mentoring Summer research for undergraduates* on Computational and Musical Genre Classification of Reggae by Roosevelt Joseph at 15th Annual Summer Student Research Symposium, University of Virgin Islands, St. Thomas Campus. July 28th, 2017. *Mentoring undergraduate research* on Mathematical Modeling and Estimation of the Basic Reproductive Number for Zika in the Virgin Islands with Julien Ekpe presented at presented at 15th Annual Summer Student Research Symposium, University of Virgin Islands, St. Thomas Campus, July 28th, 2017.
- *Mentoring Inservice Math Teachers*. (Spring 2017). Mentoring two mathematics teachers in training and coaching mathematical modeling teams for international mathematical modeling competitions.
- **Ekici, C.**, Plyley, C. (June 19-June 29, 2017). Facilitated training in STEM Teacher workshop on *Advanced Perspectives in Mathematical and Scientific Modeling Practices with Culturally Responsive STEM Learning* Research and Tech. Park, St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.

- Lewit, A., & **Ekici, C.** *Coding and Computing for Integrated STEM Learning with Python*. Research and Tech. Park, St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.**, Alagoz, C. (June 19-29, 2017). *Assessing Mathematical Modeling and Integrated STEM Learning Outcomes with project based learning*. Research and Tech. Park, St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.** (June 30, 2017) *Best Leadership and Mentoring Practices for Integrated STEM Education*. Research and Tech. Park, St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.**, Plyley, C. (Nov 4 & Nov 18, 2016). Lead Trainer for STEM Teacher Circles on *Mathematical modeling perspectives on population dynamics modeling with continuous and discrete approach*. Research and Tech. Park, St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.** (2016, June 20–24, Morning Sessions). Trainer for the workshops on *Culturally Responsive Practices with Interdisciplinary project based STEM learning*. U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.** (2016, June 27–June 30, Morning Sessions). *Mathematical and Scientific Modeling and Practices for Integrated STEM learning*.. Research and Tech. Park, St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- Faley, T., Greenstein, S., **Ekici, C.**, (2016, June 30). Facilitator for the *Design and innovation orientation for active learning of engineering and STEM using 3D printers* Research and Tech. Park, St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.**, Plyley, C. (2016, June 30). Lead trainer *Mathematical modeling perspectives on population dynamics modeling with continuous and discrete approach*. Research and Tech. Park, St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.**(2016, June 24&July 1, Mornings). *Leadership and Mentoring Training for interdisciplinary project based STEM Learning*. Research and Tech. Park, St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- Lewit, A., & **Ekici, C.**(2016, June 20-24, afternoons). *Tech-in-STEM Training on Coding and Computing for Secondary STEM Teachers* –with On-Line training and support modules pre and post conference for yearlong followup incorporating TPACK training. Research and Tech. Park, St. Croix, U.S. Virgin Islands: UVI- VI Institute of STEM Education Research and Practice.
- Powell, A., **Ekici, C.**, & Greenstein, S. (2016, Jun 27-30, afternoons). *Building Mathematical agency, identity through experiential learning activities and practices with manipulatives using Cuisenaire rods*. Research and Tech. Park, St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.

- **Ekici, C.**(2016, May 29). *STEM Teacher Circle event to showcase, support and recruit for integrated STEM projects*. St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.** as an EPSCoR Team Member. (Mar 2016). *NSF Reverse Site Visit for EPSCoR- Mare Nostrum project-Workforce development area preparing for and participating in the panel discussions with the reviewers as the research director of VI Institute for STEM Education Research and Practice* in Washington DC/Reston, VA
- Alagoz, Ç., , & **Ekici, C.**. (2016 June 6-9). Elementary math teacher enhancement program for the Virgin Islands. Mathematics Teacher Preparation Conference. Newark, DE: University of Delaware. (Proposal Accepted with travel grants.)
- Wilkins, A. , & **Ekici, C.** (2016, February 19). *STEM professional learning community event on Green Homes project for integrated STEM learning*. St. Croix, U.S. Virgin Islands: JH Woodson Junior High School.
- Participated workshop for faculty (2015, December). Developing and Assessing Learning Outcomes and Flipped Teaching practices. St. Croix, USVI: University of the Virgin Islands.
- **Ekici, C.**(2015, December 5). STEM Teacher Circle event to showcase, support and recruit for integrated STEM projects. St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.**(2015, December 2). STEM professional learning community event for yearlong followup of integrated STEM projects. St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.**(2015, November 18). STEM Teacher Circle event to showcase, support and recruit for integrated STEM projects. St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.**(2015, November 14). STEM professional learning community event for yearlong followup of integrated STEM projects. St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.** (2015, October 3). *STEM professional learning community event for yearlong followup of integrated STEM projects*. St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.**(2015, October 17). STEM Teacher Circle event to connecting teachers with EPSCoR research community for STEM learning through locally relevant projects. St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.
- **Ekici, C.**(2015, July 14–July 25). *Conducting inservice teacher training workshop for math and science teachers on Culturally Responsive Practice with PBL*. St. Croix, U.S. Virgin Islands: VI Institute of STEM Education Research and Practice.

- **Ekici, C.** (2015, July 14&July 18). Conducting Workshop on Video analysis and reflections to translate NCTM's *Principles to Actions* for math and science teachers. St. Croix, VI: VI Institute of STEM Education Research and Practice.

TRAININGS
AND
PROFESSIONAL
DEVELOPMENT

- September 27, 2018. "A Strategic Approach to Competitive Grant Seeking" by Hanover Research. Corpus Christi, TX: Texas A&M University - Corpus Christi. (Attended)
- July 2018 : Workshop on Supporting and Sustaining Scholarly Mathematics Teachers in undergraduate mathematics. (July 15-July20). Hartford, CT: University of Hartford. (Participant and co-Facilitator).
- June 2018 (invitation only) Participated in workshops for faculty on Elementary Mathematics Project with travel grants from Boston University on teaching geometry for elementary teachers in Boston.
- June 2018: Invited and participated in MODULE(S²) Project workshop in Denver in June 26-29, 2018 with travel grants as a geometry instructor/scholar in collaboration with Jeremy Strayer from Middle Tennessee State University
- February 2018 (invitation only) Participated in the ESTEEM (Enhancing Statistics Teacher Education with EModules) Workshop for Teacher Educators in Houston, Texas on February 7, 2018 with ongoing follow-up activities in collaboration with Prof.Dr. Hollylynne Lee from Friday Institute of North Carolina State university.
- Jadav, Ameeta (8-9 May 2017). *Online instruction and course design*. Two Day UVI Faculty Development Workshop. University of the Virgin Islands: St. Croix, St. Thomas, and Online Zoom session.
- Ekici, Celil (April 2017). *Assessment in Online Learning*. Presented in the Faculty Roundtable for Online Teaching faculty. University of the Virgin Islands: St. Croix, St. Thomas, and Online.
- Boumedine, M., Combie, Valerie, Ekici, Celil., Jadav, Ameeta. (April 2017). *Teaching Online - Best Practices*. April 26, 2017. University of the Virgin Islands: St. Croix, St. Thomas, and Online. (30 participating Online faculty).
- Growth mindset workshop (Dec 13, Dec 14, 2016) Trained on Growth Mindset for mathematics and science education. St. Thomas, UVI .
- The Conference Board on the Mathematical Sciences(CBMS) Fifth National Forum on The First Two Years of College Math: Building Student Success, October 5–7, 2014. Hyatt Regency Hotel, Reston, VA.
- **Ekici, C.** (2014, June 23–July 3). Organized a STEP1&2 Workshop for Mentor and Master teachers for UVITeach program as a U-Teach Affiliated Institute. U.S. Virgin Islands: UVI.
- **Ekici, C.** (2014, July 1–3). Organized and directed a workshop to Promoting Inquiry Based Learning Math and Science Workshop with Mentors Teachers, Peer Leaders and Peer Instructors in Developmental and Introductory Math and Science courses. U.S. Virgin Islands: UVI.
- **Ekici, C.**(2014, May 23). Organized training-of-trainer workshop for STEP1&2 Collaborating and Master teachers for UVITeach program as a U-Teach Affiliated Institute. TX: Austin.

- **Ekici, C.** (2014, April). Integrating Intelligent Tutors (Hawkes Learning Systems) and Peer Led Team Learning for an Active Student Centered Developmental Mathematics Practice–Professional Development Workshop for Instructors. Kingshill, USVI: University of Virgin Islands.
- **Ekici, C.**(2013, November). Trained on course based workshop on teaching Uteach course *Perspectives on Science and Math*
- **Ekici, C.**(2013, September-November). Trained on *Accountable Talk@.Conversation that Works*. Online Coursera course by J. Z. Sherer, P. Goldman and Lauren B. Resnick. Certificate of Achievement from the Institute for Learning, University of Pittsburgh.
- **Ekici, C.** (Spring 2013). Trained on Online Faculty Development Course and developed *online Probability course for teachers* for Summer of 2013. University of California Irvine, Distance Learning Center.
- **Ekici, C.** (2013, March). Standards of Developmental Mathematics Practice *Beyond Crossroads* by AMATYC: Professional Development Workshop for Instructors. Kingshill, USVI: U.S. Virgin Islands.
- **Ekici, C.** (2012, October). *Culturally sensitive practices to develop a U-Teach program at a HBCU: STEM Teach VI*. U-Teach Institute Open-House(October 13-14), University of Texas, Austin, TX.
- Alvermann, D., Harnish, D., Cramer, S., Templin, S., Pollack, S., Thompson, J., Alagoz, C., & **Ekici, C.** (August 2008). Evaluation of Georgia reading first implementation, progress, and impact 2007-08: Year four (cohort 1) year two (cohort 2). College of Education, UGA.
- Bulut, S. , **Ekici, C.** İşeri, A. İ., & Yenal, E. (1997, February). *Geometri öğretimi çalışma yapraklarının geliştirilmesi ve kullanımı [Development and use of worksheets in geometry instruction]*. Council of Higher Education/ World Bank National Education Development Project: Inservice Teacher Training: Secondary Mathematics Teaching Seminar, Ankara, Turkey.
- Bulut, S., **Ekici, C.**, İşeri, A. İ., & Cankoy, O. (1997, February). *Olasılık ve öğretimi çalışma yapraklarının geliştirilmesi ve kullanımı [Development and use of worksheets for probability and its instruction]*. Council of Higher Education/World Bank National Education Development Project: Inservice teacher training: Secondary Mathematics Teaching Seminar, Ankara, Turkey.
- **Ekici, C.** (1994, October). *Instructional technologies in mathematics education - LOGO, CABRI and MICROWORLDS*. Computer Education and Services, the Ministry of Education. Ankara, Turkey.
- **Ekici, C.**. Participated Workshop on the *Dynamical Systems I*, December 1994, Bursa, Turkey.
- **Ekici, C.**. Participated Workshop on *Nonlinear Problems in Mathematical Physics*, 24-29 Oct. 1994, Edirne, Turkey
- **Ekici, C.**. *Differential Equations Symposium VIII*, 19-21 September 1994, Datça, Turkey
- **Ekici, C.**. Presented *Logo-based teaching tool for simulating binomial and normal distributions with Quincunx*. in The International Summer School on Computer-Based Cognitive Tools for Teaching and Learning. *Med–Campus Project*, 1-13 August 1994, Side-Antalya.
- **Ekici, C.**. Workshop on *Theoretical Physics and Applied Mathematics Research Institute*, Trakya University, Edirne, Turkey, February 22-28, 1994.

FORMER
GRANTS AND
PROJECTS

Bulut, S., **Ekici, C.**, İş, Ç., Seçil, S. O., & Çiçek, I. (May 2004). Geometri konusunda problem çözme stratejileri ve ispat ile ilgili performansların ve inançların incelenmesi [*Analysis of performances and beliefs about problem solving strategies and proof*]. METU, Ankara, Turkey.

Project on Certain Factors that Influence Students Mathematics Achievement: Prof.Dr. Laurie Hart (University of Georgia, ABD), Safure Bulut, *Celil Ekici* and Gokçe Yurdakul (Toronto University, Kanada). (1997-2000)

Bulut, S., İşeri, A. İ., Cankoy, O., Gokçe, S., & **Ekici, C.**(May, 1997-May, 1999). Olasılık ve istatistik öğretim/ogrenim materyallerinin ve ölçme araçlarının geliştirilmesi [*Probability and statistics teaching/learning materials and assessment tools development*]. (METU Research Fund Project No. 97-05-01-04). METU, Ankara.

Bulut, S., İşeri, A.İ.,**Ekici, C.**, & Yenal, E. (July, 1995-March, 1998). Geometri öğretiminde değişik yaklaşımların öğrenci başarı ve tutumuna etkisini incelemek amacıyla ders materyalleri, başarı testi ve tutum ölçeğinin geliştirilmesi [*Development of achievement test and attitude scale for analyzing the effects of alternative approaches in teaching geometry on student achievement and attitudes*]. (METU Research Fund Project No. 95-05-01-01), METU, Ankara, Turkey.

RECENT
GRANT
RELATED
ACTIVITIES

- *Principal Investigator* (NSF-IUSE grant proposal). *Integrated Engineering and Mathematics Education with Inquiry-Based Modeling Communities*. (09/01/19 - 08/31/22) \$299,752. (Celil Ekici PI, Ruby Mehrubeoglu Co-PI, Devanayagam Palaniappan Co-PI) (Under Preparation)
- 2018-2019: Local Research Grant TAMUCC Faculty Research Development Program facilitated by Daniel Riechers
- *co-Principal Investigator* (NSF-HSISTEM grant proposal to be submitted in March 2019). *UMATHS- Increasing Undergraduate Mathematics Support for Recruiting and Retaining Students in STEM*. (09/01/19 - 08/31/24) \$1,499,792. (Sunil Mathur PI, Celil Ekici co-PI, Alexey Sodovski co-PI and Devanayagam Palaniappan co-PI.)
- REU- Research Experiences for Undergraduates Research Mentor Project/Proposal Title: Mathematical Modeling in Coastal Marine Ecological System Environments, Total Award Amount: \$262,242 Total Award Period Covered: 03/01/19-02/28/22. Proposal Submitted In August. (Sunil Mathur PI, Celil Ekici co-PI, Alexey Sodovski co-PI and Devanayagam Palaniappan co-PI.) (Under Review)
- *co-Principal Investigator* (NSF-HSISTEM grant proposal submitted in March 2018). *UMATHS- Increasing Undergraduate Mathematics Support for Recruiting and Retaining Students in STEM*. (09/01/18 - 08/31/23) \$1,499,792. (Sunil Mathur PI, Celil Ekici co-PI, Alexey Sodovski co-PI and Devanayagam Palaniappan co-PI.) (declined)

- *co-Principal Investigator* (NSF-ECR grant proposal submitted in September 2017). *Using Didactic Transposition to Advance Teacher Knowledge Theory in Culturally Diverse Environments*. (May, 1, 2018- April, 30, 2021) \$510,524. (Valentina Postelnicu PI, Celil Ekici co-PI, and James Dogbey co-PI.) declined
- As a key expert in establishing **Professional STEM Learning Communities** in order to develop and support locally effective teacher practices implementing Common Core and New Century Science Standards, conducting and incorporating authentic research on culturally relevant and research-based effective local practices for 7-12 Math and Science Teachers. Developing teacher capacity as researchers by conducting action research on locally effective integrative STEM education practices. This is funded under NSF EPSCoR grant with a total budget of 1,674,702.0 dollars between 2014-2019 with National Science Foundation Award No. 1355437.
- Inservice Teacher Education: *Principal Investigator* for Math and Science Partnership grant submitted to NSF titled as **VIEMLeC- VI Elementary Math Learning Communities** (VIEMLeC): Improving Mathematics Learning, Literacy, and Instruction with Model Classrooms supported by Professional Learning Communities. It was submitted in the Fall of 2012 with a budget of 4,290,598.00 dollars. Great reviews but not funded. To be revised and resubmitted
- Program development for Preservice Teacher Education: *co-Principal Investigator* for NSF NOYCE Capacity Building Grant in developing **UVITeach** program at UVI (2012-2015). Served a leading role for a practice based, inquiry oriented and interdisciplinary teaching certification program for the current STEM majors at UVI following the U-Teach model awarded under National Science Foundation Award No. 1136371.
- Program development for Preservice Teacher Education: Continuation to the NOYCE Capacity building grant, I spearheaded the successful effort in securing continuing funding for **UVITeach** between August 2015 and August 2019 from NSF with *a total budget of 1,026,622.0 dollars* . This UVI Teach program building and implementation is currently supported by National Science Foundation Award No. 1355437.
- **the Virgin Islands Institute for STEM Education Research and Practice-VI IS-ERP** Served as the founding director of **the Virgin Islands Institute for STEM Education Research and Practice** with a funding of *783,570.0 dollars* from NSF for 5 years starting August 2014. The Institute serves as a vibrant intellectual hub for learning, networking and innovation in and across the Caribbean, in all areas pertaining to STEM Education. The mission is to foster research, education and public service on sustainability, to promote Caribbean inter-Islands cooperation, to advance interdisciplinary investigations and learning, to collaborate with governmental agencies and industry partners and to research, develop, demonstrate best practices in STEM Education at all education levels.
- Inservice Teacher Education: **STEM Teacher Circles**: (2014-2017), increase inservice teachers' Mathematical Content for Teaching (MKT) development of technology pedagogical content knowledge (TPACK). Funded as a part of STEM professional learning community.

AWARDS,
HONORS AND
FELLOWSHIPS

Fall 2018: Received **the Max E. Lundquest Rising Star STEM Educator Award** by International STEM Education Association recognizing initial contributions and future potential as a STEM Educator, demonstrating leadership qualities with students and colleagues

Fall- Spring 2019: Faculty Research Development Program Fellow, TAMUCC.

Spring 2016: WOW Teaching reward recipient from UVI based on student teaching evaluations.

1995-1998: Fellowship from World Bank– Higher Education Council of Turkey for Graduate Study in Mathematics Education at UGA

1989-1993: Teacher Fellowship from the Ministry of National Education for Secondary Mathematics Teaching program at METU.

1990-1993: Received high recognition from METU after double majoring in three years from two-highly esteemed 4-year undergraduate programs in mathematics and mathematics education with Honors.

AFFILIATED
PROFESSIONAL
COMMUNITIES

Mathematical Association of America(MAA): Affiliated SIGMAAs are Inquiry Based Learning, Math Circles for Students and Teachers(MCST);
Research in Undergrad Mathematics Education (RUME);
Society of Industrial and Applied Mathematics(SIAM)
SACNAS (Society for Advancement of Chicanos/Hispanics and Native Americans in Science)
Association of Mathematics Teacher Educators (AMTE)
International Community of Teachers of Mathematical Modeling and Applications (ICTMA)
American Educational Research Association- SIG in Research in Mathematics Education (AERA)
National Council for Mathematics Teachers (NCTM)

SERVICES

Spring 2019: Judge for The Mathematical Contest in Modeling- MCM - supported by CoMAP
Spring 2019: Reviewer and Judge for National Mathematical Modeling competition supported by SIAM Math Challenge- MathWorks
Spring 2019: Family Math Night at Kolda Elementary School on Feb 7, 2019. 2018-2019: Institutional Review Board Member
Fall 2018-Spring 2019: Faculty Search Committee Member- Departmental.
Fall 2018-Spring 2019: Math Dept. committee member on PhD Program development in Data Science
Fall 2018-Spring 2019: TAMUCC Learning Community Faculty Scholars Program
Fall 2018: Reviewer of manuscripts for Bolema: Boletim de Educacao Matematica/BOLEMA - Mathematics Education Bulletin
Fall 2018: Family Math Night at Seashore Academy
Summer 2018: As former director, provided leadership and support for VI Institute for STEM Education research and practice for sustained development of their programs for STEM teacher professional learning communities: Facilitated STEM Workshop on Mentoring teacher research, integrated project-based STEM learning and assessments. St. Croix, USVI: The University of

Virgin Islands. (Mentor and Facilitator)
 Fall 2018: Local Site Coordinator for SCUDEM 2018 Student Competition using Differential Equations Modeling for Coastal Bend region
 Spring 2018: Reviewer for the Journal of Mathematical Behavior
 Spring 2018: Graduate Committee at TAMUCC Dept of Math and Statistics
 Spring 2018: Country Representative in the International Modeling Competition Challenge (ICM²C) organized by COMAP, Inc.
 Spring 2018: Reviewer and Judge for National Mathematical modeling competition supported by SIAM Math Challenge- MathWorks
 Spring 2018: Corpus Christi Site Coordinator for SCUDEM 2018 Student Competition using Differential Equations Modeling
 Spring 2018 Served as a faculty collaborator on Integrated learning community on Trigonometry, Computer Science and 1st year Seminar with project based STEM learning
 Spring 2018 Family Mathematics Night (jointly with Dr. James Dogbey).
 2014-2017: Directing STEM Teacher Circles for In-service Teacher Education
 Fall 2017: Volunteering for Windsor Park Elementary
 Fall 2017 (September): Establishing Partnership with Toluso Midway Independent School district at the Superintendent Level towards future research grant collaborations and professional development programs (with Dr. Valentina Postelnicu)
 Fall 2017: Technology Committee at TAMUCC Department of Math and Statistics.
 Summer 2017: Mentoring summer research with two undergraduates .
 Spring 2017: Reviewer and Judge for National Mathematical modeling competition supported by SIAM Math Challenge-Moody's Megamath
 Spring 2013- Spring 2017: UVI Online Teaching Faculty and Distance Education Advisory Committee.
 Fall 2016-Spring 2017: The Country Representative of U.S. Virgin Islands in the International Modeling Competition Challenge (ICM²C) organized by COMAP, Inc.
 Fall 2016-Spring 2017: Chair of the STEM Education Postdoc Search Committee.
 Fall 2016-Spring 2017: Chair of the Academic Standards Committee, Univ. of the Virgin Islands.
 Summer 2016: Served as a reviewer for the doctoral program applicants.
 Spring 2016: Served as a Judge in Moody's Mega Math Challenge which is a national mathematical modeling competition.
 Spring 2016: Served as a Judge for the STEM fair in St. Croix district to assess students projects.
 Spring 2016: Chair of Search Committee for Data Specialist Position, UVI.
 Fall 2015-Spring 2016: Faculty Advisor for Math Boosters' club, creative writing of sci-math fiction.
 Summer-Fall 2015: Reviewed papers for the AERA Annual Conference, 2016
 Spring 2015- Summer 2017: Serving as a mentor for Collaborative Action Research projects for inservice STEM teachers with the VI ISERP/ STEM Institute at UVI.
 Fall 2015: Served as a Judge for the STEM fair in Good Hope Country Day School to assess students projects
 Fall 2015: Reviewed the papers for International Conference in Mathematics Education.
 2013-2015: Chair of STEM Education Committee spearheading the NOYCE project collaborative for UVITeach program development.
 2014-2015: Chair of Faculty Search Committee for STEM Education Faculty, UVI.
 Fall 2015: Reviewer of Papers for International Conference for Mathematics Education, 2016.
 Spring 2015: Reviewer and Judge for National Mathematical modeling competition supported by SIAM M3 Moodies Math Challenge
 Fall 2012-Spring 2016: Chair of Academic Standards Committee, UVI.
 2012: Reviewer of paper presentation proposals submitted for annual conference for AMTE 2013 (Association of Mathematics Teacher Educators)
 English(Fluent), Turkish(Native), and French (Medium).

LANGUAGE
 SKILLS

TECHNOLOGY
INTEGRATION
AND INSTRU-
TIONAL
TECHNOLOGY
SKILLS

Instructional Technologies and Educational softwares Experience in teaching algebra, geometry, probability and statistics using: GeoGebra, Geometer's SketchPad, Common Online Data Analysis Platform (CODAP), Tinkerplots, Fathom, Cabri, LOGO, Microworlds, Python, Scratch and programming / scripting for dynamic mathematical objects, BASIC programming with TI 83 Plus-84 Graphing Calculators.

Teaching Calculus and higher mathematics using Computer algebra systems (CAS), GeoGebra, MATLAB, Derive, *SAGEMath* - Co-Calc, Octave, and Mathematica. Numerical Analysis & programming routines for linear and nonlinear numerical methods with Matlab, Fourier transforms, splines, statistics and visualization. Use of spreadsheets such as EXCEL in mathematical learning activities.

Programming and Statistical Analysis using SAS, R, and SPSS. *Qualitative data analysis* with NUDIST.

Video and audio data analysis with Transana and VAT. IDS for intelligent multiple criteria decision analysis and support under uncertainties.

Programming Languages with *Basic, Pascal, Fortran, Python, Java, Processing*. Programming for lower level students with *Scratch, Logo, Netlogo*. Providing teacher training and facilitating summer workshops for teachers on programming, mathematics using Python and Scratch (in collaboration with Dr. Lewit and Dr. Boumedine) summer of 2015, summer of 2016 and summer 2017. Coding and computing with Robotics.

Mathematical and desktop publishing tools MS Office for Windows and Mac operating systems and \LaTeX . Intelligent tutoring systems such as Omega-Active-Math, Cognitive-Tutor, and ALEKS. Learning Management Systems such as Blackboard, Moodle, Desire2Learn. Conducting *online classes* for distance learning and collaborations using Google Drive, Google+ Hangouts, Social Networks for sustaining learning communities with synchronous and asynchronous learning.