

Kimberly Sirin Budak

PROFESSOR OF MATHEMATICS EDUCATION

Professional Positions

2025-Current	University of Wisconsin-Stevens Point , Stevens Point WI Professor of Mathematics Education
2020-2024	University of Wisconsin-Stevens Point , Stevens Point WI Associate Professor of Mathematics Education
2017-2020	University of Wisconsin-Stevens Point , Stevens Point WI Assistant Professor of Mathematics Education
2012-2017	North American University , Houston TX Assistant Professor of Mathematics Education
2011-2012	University of South Florida St. Petersburg , St. Petersburg FL Postdoctoral Fellow in Sunbay Digital Mathematics

Education

2007-2011	University of Central Florida (UCF) , Orlando FL Doctor of Philosophy in Mathematics Education
2001-2007	Bogazici University , Istanbul, Turkey Integrated Bachelor of Science and Master of Science in Mathematics

Honors and awards

Feb 2024	Preparing to teach Mathematics with Technology Project Stipend
June 2021	Mathematics of Doing, Understanding, Learning and Educating for Secondary Schools (MODULE(S2))-NSF Grant Project Piloter Stipend
July 2019	UWSP Teaching Professional Development Grant
May 2017	NAU Outstanding Teaching Award
2014-2015	STAAR Fellowship Award

	2008-2010	UCF Dean Fellowship Award
	2008-2009	UCF Graduate Travel Award
	2007-2008	UCF Provost Fellowship
	2007-2008	UCF Graduate Travel Award
	2001-2007	Turk Egitim Vakfi (Turkish Education Organization) Fellowship
Research experience	Summer 2021	Project piloter , Geometry Modules of MODULE(S2)
	2011-2012	Research Fellow , University of South Florida SRI Project: Sunbay Digital Mathematics
	2008-2011	Research Assistant , University of Central Florida NSF Project: Represent for Inspiration in Technology (PROFIT)"
	Spring 2008	Member of Research Team , UCF "Teacher Training in Multiple Environments: Microteach versus Virtual" (Dr. Janet Andreasen and Dr. Erhan S. Haciomeroglu)
Teaching experience	2017-2025	University of Wisconsin-Stevens Point , Stevens Point WI Professor , Department of Mathematical Sciences MATH /MED 228 Fundamental Mathematical Concepts for Elementary Teachers I MATH 105 Mathematics Applications, Appreciation, and Skills MATH /MED 338 Fundamental Mathematical Concepts for Elementary Teachers II MATH 109 Mathematics for the Social and Management Sciences MATH/MED 345 Fundamental Mathematical Concepts for Elementary Teachers III MED 334 Technology Tools for Mathematics Teachers MATH/ MED 340 College Geometry with Teaching Strategies MED 398 Student Teaching

2012-2017

North American University, Houston TX
Assistant Professor Department
MATH 1311 College Algebra
MATH 1313 Pre-Calculus
MATH 2311 Calculus
MATH 2314 History of Mathematics
MATH 3318 Geometry and Trigonometry for Teachers
MATH 3322 Teaching Problem Solving and Reasoning
MATH 3327 Integrating Technology into Mathematics Education
MATH 4324 Teaching Secondary School Mathematics
MATH 5311 Teaching Secondary School Mathematics (graduate level: online course)
MATH 5312 Geometry and Trigonometry for Teachers (graduate level: online course, currently teaching)
MATH 5314 Teaching Problem Solving in Math and Science (graduate level: online course, currently teaching)
EDUC 4323 Reading in Content Areas
EDUC 4699 Student Teaching

Publications

Journal publications

Budak, S. (2023). Insanin farazi degeri (The hypothetical value of a person). *Caglayan Dergisi* (Turkish Journal).
<https://caglayandergisi.com/2023/01/01/insanin-farazi-degeri/>

Budak, K.S. (2022). Jumping frogs fun with piecewise functions. *The Australian Mathematics Teacher*, Vol. 4(3), 6-10.
<https://search.informit.org/doi/10.3316/informit.758337629208138>

Sahin N., **Budak, K.S.**, Almus M. (2022). A Generalization of the "Eric the Sheep" Problem. *Mathematics in Schools*, 51(2), p.2-7.

Budak, K. S., & Akcay Ozkan, Z. (2022). Pre-Service Teachers' Understanding of Continuity. *International Electronic Journal of Mathematics Education*, 17(2), em0674.
<https://doi.org/10.29333/iejme/11669>

Akcay Ozkan, Z., **Budak, S.** (2021). A Comparison of Students' Preferences in Online Algebra Instruction Pre- and Post-Covid-19. *International Journal on Interactive Mobile Technologies*. 15 (17), p.4-17

Budak, S. (2021). Korkulari Matematikle Yenmek (Defeating your fears with Mathematics). *Caglayan Dergisi* (Turkish Journal).

Sahin, N., Fetterly, J., **Budak, S.** (2019). Writing Word Problems for Fraction Number Sentences. *Dimensions in Mathematics* 39 (2), 6-13.

Budak (Coskun), S., Kahrs, B. (2019). Tools for problem solving and promoting proportional reasoning *Mathematics in Schools*. 48 (4), p. 6-10.

Sahin, N., Fetterly, J., **Budak, S.**, Martsching, W. (2018). Examining the changes in prospective teachers' knowledge on writing story problems for fraction number sentences. *International Journal of Educational Studies in Mathematics*. 5 (4) p. 123-131.

Budak (Coskun), S., Sahin, N. and Dogan, B. (2018). Mathematics of motion using dynamic software *Mathematics Teacher* 111 (5), p. 382-384.

Budak (Coskun), S., & Roy, G. (2013). A Case Study Investigating the effects of Technology on Visual and Nonvisual Thinking preferences in Mathematics, *Technology, Instruction, Cognition & Learning*, 9(3).

Andreasen, J.B., Haciomeroglu, E.S., Akyuz, D., **Coskun, S.**, Cristwell, P., and Whitby, P.S. (2008). Teacher Training in Multiple Environments: Microteach versus Virtual. *Florida Association of Teacher Education E-Journal*. 1, (8), p. 1-20.

Conference Proceedings

Akyuz D., **Coskun S.** & Haciomeroglu E.S. (2009, September). An Investigation Into Two Preservice Teachers' Use Of Different Representations in Solving A Pattern Task, *Proceedings of the Thirty-First Annual Meeting of PME-NA – The North American Chapter of the International Group for the Psychology of Mathematics Education*.

Kahveci, M., **Coskun, S.** and Taylan, D. (2008, July). Students' Motivation to Use Technology for learning. *Proceedings of the World Conference on Educational Multimedia, Hypermedia and Telecommunications (ED-MEDIA)*, Vienna, Austria, 3790-3795.

Conference Presentations

National and International Conferences

Akcay Z. & **Budak S.** (2021, July). Revising College Algebra Instruction to Accept and Incorporate Use of CAS Calculators. American Society for Engineering Education annual meeting.

Budak, S., Akcay Ozkan, Z. (2021, April) A Comparison of Students' Preferences in Online Math Instruction Pre- and Post-Covid-19. Technology Innovations in Mathematics Education, Suffolk Community College Math Department.

Sahin, N. Fetterly, J. & **Budak, S.** (2018, February). PSTs' Self-authored Story Problems for Fraction Number Sentences. Paper presentation at the 45th Annual Meeting of Research Council on Mathematics Learning (RCML). Baton Rouge, Louisiana.

Sahin, N. Fetterly, J. & **Budak, S.** (2017, February). PSTs' Self-authored Story Problems for Fraction Number Sentences. Paper presentation at the 44th Annual Meeting of Research Council on Mathematics Learning (RCML). Fort Worth, Texas.

Budak, S. (2015, December) Invited and participated to "The 3rd Congress of Notable Turkish Scholars Abroad" organized by Scientific and Technological Research Council of Turkey (TÜBİTAK). Istanbul, Turkey

Coskun, S. (2012, April). Investigating Technology's Effect on Students' Solutions. Paper presented at the ninety annual meeting of National Council of Teachers of Mathematics (NCTM). Philadelphia, Pennsylvania

Coskun, S. (2010, April). *Solving Optimization Problems by Using Technology*. Paper presented at the eighty-eight annual meeting of

National Council of Teachers of Mathematics (NCTM). San Diego, California.

Coskun, S., Akyuz, D. (2010, January). *Pre-Service Teachers' Understanding of Continuity*. Paper presented at the 14th Annual Conference of the Association of Mathematics Teacher Educators (AMTE). January 28-30, 2010, Irvine, California.

Akyuz, D., **Coskun, S.** & Haciomeroglu E.S. (2009, September). *An Investigation Into Two Preservice Teachers' Use Of Different Representations in Solving A Pattern Task*. Paper presented at the Thirty-first Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Atlanta, Georgia.

Haciomeroglu, E. S., Andreasen, J., Akyuz, D., **Coskun, S.**, Cristwell, P., & Whitby, P. (2009, February). *A comparison of teaching environments: Microteach versus virtual*. Paper presented at the 13th Annual Conference of the Association of Mathematics Teacher Educators (AMTE). February 5-7, 2009, Orlando, Florida.

Kahveci, M. , **Coskun, S.** and Taylan, D. (2008, July). *Students' Motivation to Use Technology for learning*. Paper presented at Ed-Media 2008 in Vienna, Austria.

Regional/ State/ Local Conferences

Budak, S. (2019 May). *Difficulties in writing story problems*. Paper presented for presentation at the 51st Annual Conference of the Wisconsin Mathematics Council (WMC) Green Lake, Wisconsin.

Budak, S. (2018 May). *Tools for Tackling with Word Problems*. Paper presented for presentation at the 50th Annual Conference of the Wisconsin Mathematics Council (WMC) Green Lake, Wisconsin.

Kanbir, S., **Budak, S.** (2018 May). *Unpacking and Conceptualizing the Standards for Mathematical Practice*. Paper presented at the 50th Annual Conference of the Wisconsin Mathematics Council (WMC) Green Lake, Wisconsin.

Coskun, S. (2011 October). *The Effect of Technology on Students' Problem Solving Strategies*. Paper presented at the 58th Annual Conference of the Florida Council of Teachers of Mathematics (FCTM). Jacksonville, Florida.

Coskun, S. (2010 September). *Solving Algebra Word Problems with Dynamic Software "Geogebra."* Paper presented at the 57th Annual Conference of the Florida Council of Teachers of Mathematics (FCTM). Orlando, Florida.

Akyuz D., **Coskun S.** (2009, November). *The effect of using calculators in Eight Grade Turkish Mathematics Students: Results from the Third International Mathematics and Science Study*. Paper presented at the 54th Annual Conference of the Florida Educational Research Association (FERA). Orlando, Florida.

Coskun, S. (2009, October). *Exploring Exponential and Logarithm Functions with Dynamic Software*. Paper accepted for presentation at the 56th Annual Conference of the Florida Council of Teachers of Mathematics (FCTM). West Palm Beach, Florida.

Coskun, S. (2009, October). *Designing Dynamic Software Activities for In-Service Teachers to improve Visual Understandings*. Paper accepted for presentation at the Conference of Florida Association of Teacher Educators (FATE). Daytona Beach, Florida.

Coskun, S. (2009, April). *Examining Pre-Service Teachers' Understanding of Continuity*. Poster session presented at the University of Central Florida 6th Annual Graduate Research Forum. Orlando, Florida.

Haciomeroglu E., Coskun S. (2008, October). *Dynamic Linking of Multiple Representations with Geogebra*. Presented at FCTM in Jacksonville, Florida.

Andreasen, J., Haciomeroglu, E. S., Akyuz, D., **Coskun, S.**, Cristwell, P., & Whitby, P. (2008, September). *Teacher training in multiple environments: Microteach versus virtual*. Paper presented at the Conference of Florida Association of Teacher Educators (FATE).

Offered Professional Development Workshops

Faculty Professional Development Training on "Making courses more transfer-student friendly" with Erin Spetzen in 2022.

Harmony Public Schools Professional Development Seminars (3 day Workshop in August 2013). Implementing Project Based Learning Activities in Middle and High School, Harmony Public Schools Central Office, Houston, TX.

Orlando Science Middle and High School Teachers Workshop (August, 2010). Using Geogebra to support multiple representations, Orlando Science Schools, Orlando, FL.

HAPPY Hour Workshop (February, 2009, 2010). Explore Topics in Arithmetic, Algebra, Pre-Calculus, and Calculus with Geogebra for Preservice Teachers; UCF, Orlando, FL.

Seminole County Public School Teachers Workshop (January, 2009). Using GeoGebra in Teaching Mathematics, Educational Supporter Center, Sanford, FL.

Akyuz, D., **Coskun, S.**, Hunts, J., Howse, T. (2008). *Depth in geometry*. Breakout session, NCTM Standards in Depth, UCF, Orlando, FL.

Professional affiliations

2007-Present	Association of Mathematics Teacher Educators (AMTE), 2007-Present
2007-Present	National Council of Teachers of Mathematics (NCTM)
2017-Present	Wisconsin Mathematics Council (WMC)
2009-2012	Florida Association of Mathematics Teachers Educators
2009-2012	Florida Association of Teacher Educators (FATE)
2009-Present	North American Chapter of International Psychology of Mathematics Education (PME-NA)

Professional service

2017-Present	Chair, CUTEM committee, UWSP (2017-Current)
2017-Present	Member, Wisconsin Math Council
2023-2024	Member, Curriculum Committee
2023-2024	Member, Steering Committee
2021-Present	Member, Assessment Committee
2021-2023	Faculty Representative of Howard Hughes Medical Institute (HHMI) Grant
2021-Present	Member, Wisconsin – Mathematics Teacher Education Partnership
2020-Present	Member, Professional Education Advisory Council
2020-2023	Faculty Mentor, Institute of Academic Excellence
2019-2023	Member, UW-System Math Initiative-UWSP
2019-2023	Member, UW-System Math-Education Subcommittee,
2018-2021	Member, Student Recruitment and Awards Committee
2019	Member, Local Arrangements Committee, Wisconsin Chapter of Associations of Mathematics Teacher Educators (WI-AMTE),
2019 2018	ViewPoint Day, Presenter from Math Department, UWSP Manuscript Reviewer, of Mathematics Education-North American Psychology Chapter
2014-2019	Manuscript Reviewer, Mathematics Teaching in Middle School.
2015-2021	Manuscript Reviewer, Journal of Education in Black Sea Region Countries,
2012	Manuscript Reviewer, Psychology of Mathematics Education-North American Chapter.
2013-2017	Mathematics Area Representative in General Education Assessment Committee for Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Accreditation Application.
2015-2017	Chair, Mathematics Education Concentration in the application of Curriculum and Instructions Master Program
2012-2017	Member, Appeal Committee, North American University,
2008-2017	President, Orlando Science Schools Governing Board.
2008-2009	Member, Local Arrangements Committee, Associations of Mathematics Teacher Educators (AMTE),
2008	Member, Local Arrangement Committee, NCTM standards in depth,

Languages

Turkish	Native language
English	Fluent in reading, writing and speaking
Arabic	Fluent in reading, intermediate in writing and speaking

Advising/ Supervision

2017-Present	UWSP Secondary Mathematics Education Program Advisor
2017-Present	UWSP Student Teacher Supervisor
2012-2017	North American University Secondary Mathematics Education Program Advisor
2012-2017	North American University Student Teacher Supervisor

Curriculum Development

Online Course Development: MATH 228
Online Course Development: MATH 338
Online Course Development: MATH 345
Online Course Development: MED 334
Online Course Development: MATH 340, MED 340
Certificate Program Development: STEM Certificate for Elementary Education Majors

References

Dr. Cynthia McCabe	Professor, Department of Mathematical Sciences Assistant Dean, School of Mathematics, Computing, Physics, and Astronomy Email: cynthia.mccabe@uwsp.edu Phone: 715-346-2085
Dr. Halil Tas	Chair, Department of Education North American University Email: halil@na.edu Phone: 832-230-5555
Dr. Juli Dixon	Professor, Mathematics Education Coordinator, Mathematics Education Track, PhD in Education Coordinator, M.Ed. in K-8 Mathematics and Science College of Education and Human Performance University of Central Florida Email: juli.dixon@ucf.edu Phone: 407-823-2018