

## PRAIRIE VIEW A&M UNIVERSITY

## **Curriculum Vitae**

Faculty Name:	Abidin Kaya		Work Address:	P.O. Box 519; MS 1060	
				Prairie View, TX 77446	
Position Title:	Lecturer 1				
Office Location:	W. R. Banks Building 312				
Office Phone:	936-261-2095				
Email Address:	abkaya@pvamu.edu				
Education:	Degree and Area of Study	Institution I	Name	Degree Date	
	Ph.D. (Mathematics)	Fatih Univer	sity	2014	
	M.S. (Mathematics)	Fatih Univer	sity	2011	
	B.S. (Mathematics)	Bogazici Un	iversity	2003	
Teaching Experience	Position Title	Institution I	Name	Position Dates	
	Lecturer	Prairie View	A&M University	2023-present	
	Math Teacher	Harmony Pu	Iblic Schools	2020-2023	
	Lecturer	Sampoerna	University	2019-2020	
	Lecturer	Sampoerna	Academy B.S.	2017-2019	
	Math Teacher	Kharisma Ba	angsa School	2016-2017	
	Assistant Professor	Bursa Orhar	ngazi University	2015-2016	
	Lecturer	Fatih Univer	sity	2013-2015	
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Professional Publications:	Z. Hebbache, A. Kaya, N. Aydin, K. Guenda, "On some skew codes over Z_q + uZ_q", Discrete Mathematics, Algorithms and Applications, Vol. 16, Issue 1, 2250186, 2024				
	J. Gildea, A. Kaya, R. Taylor, A. Tylyshchak, B. Yıldız, "New extremal binary self-dual codes from block circulant matrices and block quadratic residue circulant matrices", Discrete Mathematics, Vol. 344, Issue 11, 112590, 2021				
	S.T. Dougherty, J. Gildea, A. Korban, A. Kaya, "Composite matrices from group rings, composite Gcodes and constructions of self-dual codes", Designs, Codes and Cryptography volume 89, 1615–1638, 2021				
	J. Gildea, A. Kaya, R. Taylor, A. Tylyshchak, "New Self-dual codes from 2x2 block circulant matrices, group rings and neighbours of neighbours", Advances in Mathematics of Communications, doi: 10.3934/amc.2021039, 2021				
	M. Bortos, J. Gildea, A. Kaya, A. Korban, A. Tylyshchak, "New self-dual codes of length 68 from a 2×2 block matrix construction and group rings", Advances in Mathematics of Communications, doi: 10.3934/amc.2020111, 2020				
	J. Gildea, A. Kaya, A. Korban, A. Tylyshchak, "Self-dual codes using bisymmetric matrices and group rings", Discrete Mathematics, Vol. 343, Issue 11, 112085, 2020				
	J. Gildea, A. Kaya, A. Korban, B. Yıldız, "New extremal binary self-dual codes of length 68 from generalized neighbors", Finite Fields and Their Applications, Vol. 67, 1011727, 2020				

J. Gildea, A. Kaya, B. Yıldız, "New binary self-dual codes via a variation of the four-circulant construction". Mathematical Communications. Vol. 25. Issue 2, 213-226, 2020
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S.T. Dougherty, J. Gildea, A. Kaya, "2n bordered constructions of self-dual codes from group rings", Finite Fields and Their Applications, Vol. 67, 101692, 2020
J. Gildea, H. Hamilton, A. Kaya, B. Yıldız, "Modified quadratic residue constructions and new extremal binary self-dual codes of lengths 64, 66 and 68", Inf. Process Lett., Vol. 157, 105927, 2020
J. Gildea, A. Korban, A. Kaya, B. Yıldız, "Constructing self-dual codes from group rings and reverse circulant matrices", Advances in Mathematics of Communications, 2020
J. Gildea, R. Taylor, A. Kaya, A. Tylyshchak, "Double bordered constructions of self-dual codes from group rings over Frobenius rings", Cryptography and Communications, 2020
S.T. Dougherty, J. Gildea, A. Korban, A. Kaya, "Composite constructions of self-dual codes from group rings and new extremal self-dual binary codes of length 68", Advances in Mathematics of Communications, Vol. 14, Issue 4, 677-702, 2020
S.T. Dougherty, J. Gildea, A. Kaya, B. Yıldız, "New self-dual and formally self-dual codes from group ring constructions", Advances in Mathematics of Communications, Vol. 14, Issue 1, 11-22, 2020
A. Kaya, B. Yıldız, "New extremal binary self-dual codes from a Baumert-Hall array", Discrete Applied Mathematics, Vol. 271, 74-83, 2019
J. Gildea, A. Kaya, B. Yıldız, "An altered four circulant construction for self-dual codes from group rings and new extremal binary self-dual codes I", Discrete Mathematics, Vol. 342, Issue 12, 2019
S.T. Dougherty, J. Gildea, A. Kaya, "Quadruple bordered constructions of self-dual codes from group rings", Cryptography and Communications, https://doi.org/10.1007/s12095-019-00380-8, 2019
S.T. Dougherty, J. Gildea, A. Korban, A. Kaya, A. Tylyshchak, B. Yıldız, "Bordered constructions of self-dual codes from group rings and new extremal binary self-dual codes", Finite Fields and Their Applications, Vol. 57, 108-127, 2019
A. Kaya, B. Yıldız, "Constructing formally self-dual codes from block lambda-circulant matrices", Mathematical Communications, Vol. 24, Issue 1, 91-105, 2019
J. Gildea, A. Kaya, R. Taylor, B. Yıldız, "Constructions for self-dual codes induced from group rings", Finite Fields and Their Applications, Vol. 51, 71-92, 2018
A. Kaya, "New extremal binary self-dual codes of lengths 64 and 66 from R2-lifts", Finite Fields and Their Applications, Vol. 46, 271-279, 2017
S.T. Dougherty, A. Kaya, E.Salt¨urk, "Cyclic codes over local Frobenius rings of order 16", Advances in Mathematics of Communications, Vol. 11, Issue 1, 99-114, 2017
A. Kaya, "New extremal binary self-dual codes of length 68 via short Kharaghani array over F2+uF2", Mathematical Communications, Vol. 22, Issue 1, 121-131, 2017

	A. Kaya, N. T <sup>*</sup> ufek ci, "New extremal binary self-dual codes of lengths 66 and 68 from codes		
	S.T. Dougherty, A. Kaya, E. Salt¨urk, "Constructions of Self-Dual Codes and Formally Self-Dual Codes over Rings", AAECC, Vol. 27, Issue 5, 435-449, 2016		
	A. Kaya, B. Yıldız, A. Pa,sa, "New extremal binary self-dual codes from a modified four circulant construction", Discrete Mathematics, Vol. 339, Issue 3, 1086-1094, 2016		
	A. Kaya, B. Yıldız, "Various constructions for self-dual codes over rings and new binary self-dual codes", Discrete Mathematics, Vol. 339, Issue 2, 460-469, 2016.		
	A. Kaya, B. Yıldız, I. S,iap, "New extremal binary self-dual codes from F4 + uF4-lifts of quadratic circulant codes over F4", Finite Fields and Their Applications, Vol. 35, 318-329, 2015		
	A. Kaya, B. Yıldız, I. Sjap, "On Reed Muller codes over F2 + uF2 and some applications", Journal of the Franklin Institute, Vol. 351, 751-762, 2014		
	A. Kaya, B. Yıldız, I. S,iap, "Quadratic residue codes over Fp + vFp and their Gray images", Journal of Pure and Applied Algebra, Vol. 218, 1999-2011 (2014)		
	A. Kaya, B. Yıldız, I. S,iap, "New extremal binary self-dual codes of length 68 from quadratic residue codes over F2 + uF2 + u2F2", Finite Fields and Their Applications, Vol. 29, 160-177, 2014		
	S. Karadeniz, A. Kaya, "New extremal binary self-dual codes of length 58 as R3-lifts from the shortened [8, 4, 4] binary Hamming code", Journal of the Franklin Institute, Vol. 349, 2824-2833, 2012		
	J. Gildea, A. Kaya, A. Tylyshchak, B. Yıldız, "A group induced four-circulant construction for selfdual codes and new extremal binary self-dual codes", Australasian Journal of Combinatorics Volume 83(1) (2022) 1-19		
	S.T. Dougherty, J. Gildea, A. Korban, A. Kaya, "New extremal self-dual binary codes of length 68 via composite construction, F2 + uF2 lifts, extensions and Neighbors", to appear in International Journal of Information and Coding Theory, 2020.		
	J. Gildea, A. Kaya, A. Tylyshchak, B. Yıldız, "A modified bordered construction for self-dual codes from group rings", Journal of Algebra Combinatorics Discrete Structures and Applications, Vol. 7, No. 2, pp. 103-119, 2020		
	I. Aydogdu, A. Kaya, "On Self-dual Z2 Z2 [u]-linear codes ", Mathematical Sciences and Applications E-notes, Vol. 5, No. 2, 69-75, 2017		
	A. Batoul, K. Guenda, A. Kaya and B. Yıldız, "Cyclic isodual and formally self-dual codes over Fq + vFq", European Journal of Pure and Applied Mathematics, Vol. 8, No. 1, pp.64-80, 2015.		
	A. Kaya, B. Yıldız, "New extremal binary self-dual codes of length 68", Journal of Algebra Combinatorics Discrete Structures and Applications, 1, 31-42, 2014		
Additional Trainings/Skills:			

Reviewing duties for International Journal of Quantum Information, Finite Fields and Their Applications, Discrete Mathematics, Cryptography and Communications, Journal of Applied Mathematics and Computing, Applicable Algebra in Engineering Communications and
Computing, Turkish Journal of Mathematics, Journal of Algebra Combinatorics Discrete Structures and Applications, Applied Mathematics and Information Science, Trakya Journal of Natural Sciences.