Burcu Gülmez Temür, Ph.D.

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Department of Mathematics

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# EDUCATION

|  |  |
| --- | --- |
| 1999-2005 | Middle East Technical University, Mathematics, Ph.D. |
| 1995-1998 | Middle East Technical University, Mathematics, M.S. |
| 1991-1995 | Middle East Technical University, Mathematics, B.S.  |

# ACADEMIC POSITIONS

|  |  |
| --- | --- |
| 2012- | Assist. Prof. Dr., Department of Mathematics,Atilim University, Turkey |
| 2005 - 2012 | Instructor Dr., Department of Mathematics,Atilim University, Turkey |
| 2004 - 2005 | Instructor, Department of Mathematics,Atilim University, Turkey |
| **1996 - 2004** | Research Assistant, Department of Mathematics,Middle East Technical University, Turkey |

**RESEARCH INTERESTS**

|  |  |
| --- | --- |
| 1 | Finite Fields and their applications |
| **2** | Algebraic Curves over Finite Fields |
| **3** | Algebraic Function Fields over Finite Fields |

**PUBLICATIONS**

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| --- | --- |
| 1 | F. Özbudak, Burcu Gülmez Temür, “Fibre products of Kummer covers and curves with many points”, AAECC, Vol. 18, pp. 433-443, 2007 |
| **2** | F. Özbudak, Burcu Gülmez Temür ,O. Yayla, “An exhaustive computer search for finding new curves with many points among fibre products of two Kummer covers over F5 and F7”, Turk.J. Math*., 37*, pp. 908-913, (2013)Author(s), Title of the book, Publisher, Year  |
| **3** | F. Özbudak, Burcu Gülmez Temür, “Finite number of fibre products of Kummer covers and curves with many points over finite fields, Designs Codes and Cryptography, Volume 70, Issue 3, pp. 385-404,(2014) |
| **4** | F. Özbudak, Burcu Gülmez Temür, O. Yayla, “On Fibre Products of Kummer Curves with Many Rational Points over Finite Fields”, CIM Series in Mathematical Sciences 3, Coding Theory and Applications, 4th International Castle Meeting, (2015)  |
| **5** | F. Özbudak, B. Gülmez Temür, O. Yayla, “On Fibre Products of Kummer Curves with Many Rational Points over Finite Fields”, CIM Series in Mathematical Sciences 3, Coding Theory and Applications, (2015) |
| **6** | F. Özbudak, Burcu Gülmez Temür ,O. Yayla, “Further Results on Fibre Products of Kummer Covers and Curves with Many Points over Finite Fields”,[Adv. Math. Commun.](https://mathscinet.ams.org/mathscinet/search/journaldoc.html?id=6241) [10](https://mathscinet.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=340504) [, no. 1,](https://mathscinet.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=340504) pp. 151–162, (2016) |
| **7** | P. Ongan, Burcu Gülmez Temür, “A Specific Type of Permutation and Complete Permutation Polynomials over Finite Fields”, Journal of Algebra and Its Applications, (2019) |

**PROJECTS**

|  |  |
| --- | --- |
| 1 | Cebirsel Egriler ve Onların Bazı Kriptografik ve Kodlama Teorisindeki Problemlerdeki Uygulamaları, Araştırmacı, TÜBİTAK, Proje No: 109T672, 05.2010-05.2013 |

# CONFERENCE PRESENTATIONS

|  |  |
| --- | --- |
| 1 | B. Gülmez Temür, General fibre products of Kummer covers with many rational points: simplification under certain extra divisibility conditions, Antalya Algebra Days XIII, Turkey, May 2011 |
| **2** | B. Gülmez Temür, The Tenth International Conference on Finite Fields and Their Applications (Fq10), General fibre products of Kummer covers with many rational points , Belgium, July 2011 |
| **3** | B. Gülmez Temür, Finite number of fibre products of Kummer covers with many rational points , Combinatorics 2012, Italy, September 2012 |
| **4** | B. Gülmez Temür, On finite number of fibre products of Kummer covers with many rational points over Finite Fields, Combinatorics 2014, Italy, June 2014 |
| **5** | F. Özbudak, B. Gülmez Temür, O. Yayla, On Fibre Products of Kummer Curves with Many Rational Points over Finite Fields, 4thICMCTA , Portugal, September 2014 |
| **6** | B. Gülmez Temür, Further Results on Fibre products of Kummer covers, Combinatorics 2016, Italy, June 2016 |
| **7** | B. Gülmez Temür, Some Permutation and Complete Permutation Polynomials Over Finite Fields, Combinatorics 2018, Italy, June 2018 |

**CITATIONS**

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| --- | --- |
| Sum of times cited without self-citations (ISI Web of Science):  | 1 |
| H-index (ISI Web of Science):  | 2 |

**COURSES GIVEN**

|  |  |
| --- | --- |
| 1 | Math 325 Elementary Number Theory |
| 2 | Math 331 Abstract Algebra |
| 3 | Math 332 Finite Fields |
| 4 | Math 326 Coding Theory |
| 5 | Math 231 Linear Algebra 1 |
| 6 | Math 232 Linear Algebra 2 |
| **7** | Math 546 Galois Theory (graduate course) |
| **8** | Math 541 Algebra (graduate course) |
| **9** | Math 275 Linear Algebra |

**THESES SUPERVISED**

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| --- | --- |
| 1 | MS Thesis, Maha M. M. Dabboor Asad, “On Permutation Polynomials over Finite Fields”, Atılım Üniversitesi, 2017 |