

## Prof. NAİM TUĞLU

### Personal Information

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### Education Information

Doctorate, Selcuk University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 1998 - 2002

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 1995 - 1998

Undergraduate, Gazi University, Fen-Edebiyat Fakültesi, Matematik Pr., Turkey 1990 - 1994

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, LCM-GCD matrisleri üzerine, Selcuk University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2002

Postgraduate, Topolojinin fizikteki uygulamaları, Gazi University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 1998

### Research Areas

Mathematics

### Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Matematik Bölümü, 2017 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Matematik Bölümü, 2010 - 2017

Assistant Professor, Gazi University, Fen Fakültesi, Matematik Bölümü, 2003 - 2010

### Academic and Administrative Experience

Head of Department, Gazi University, Fen Fakültesi, Matematik, 2020 - Continues

Gazi University, Fen Fakültesi, Matematik Bölümü, 2012 - 2014

Fakülte Kurulu Üyesi, Gazi University, Fen Fakültesi, Matematik, 2011 - 2014

### Courses

Cebir I, Undergraduate, 2016 - 2017, 2017 - 2018  
Diferansiyel Denklemler, Undergraduate, 2017 - 2018  
Diferensiyel Denklemler, Undergraduate, 2016 - 2017  
Cebir II, Undergraduate, 2016 - 2017  
İstatistikte Matris Kuramı, Undergraduate, 2016 - 2017

## Advising Theses

TUĞLU N., Bernoulli polinomlarının genelleştirmeleri ve fibo-bernoulli matrisler, Doctorate, S.KUŞ(Student), 2020  
TUĞLU N., Q-Binomial Transform Of Q-Fibonacci Sequences, Postgraduate, A.BAKIRHAN(Student), 2019  
TUĞLU N., q-Fibonacci ve q-Lucas polinomları, Postgraduate, S.ESEN(Student), 2018  
TUĞLU N., Fibonacci and Lucas Polynomials, S.Esen(Student), 2018  
TUĞLU N., Harmonik ve hiperharmonik Fibonacci sayıları ve uygulamaları, Doctorate, C.KIZILATEŞ(Student), 2016  
TUĞLU N., Incomplete q-Chebyshev polinomlarının özellikleri, Postgraduate, E.ERCAN(Student), 2015  
TUĞLU N., QRİordan Representations, F.Yeşil(Student), 2015  
TUĞLU N., q-Rİordan gösterimler, Doctorate, F.YEŞİL(Student), 2015  
TUĞLU N., Q-bernoulli matrices and its properties, Postgraduate, S.KUŞ(Student), 2013  
TUĞLU N., The properties of gauss binomial coefficients and fibonomial coefficients, Postgraduate, C.KIZILATEŞ(Student), 2012  
TUĞLU N., Riordan representation of Pascal matrices via fibonomial coefficients, Postgraduate, F.YEŞİL(Student), 2011  
TUĞLU N., Bivariate fibonacci and lucas polynomials, Postgraduate, C.ATAĞ(Student), 2011  
TUĞLU N., GENERALIZED PASCAL MATRICES, Postgraduate, N.ABAY(Student), 2010  
TUĞLU N., İki değişkenli Fibonacci ve Lucas polinomları, Postgraduate, H.ABBAS(Student), 2009  
TUĞLU N., ARITHMETIC FUNCTIONS OF TWO VARIABLES, Postgraduate, F.ÇETİN(Student), 2007

## Jury Memberships

Appointment Academic Staff, Appointment Academic Staff, Zonguldak Bülent Ecevit Üniversitesi, December, 2020  
Associate Professor Exam, Associate Professor Exam, Gazi University, September, 2020  
Associate Professor Exam, Associate Professor Exam, Hacettepe Üniversitesi, June, 2020  
Associate Professor Exam, Associate Professor Exam, Gazi University, October, 2018  
Associate Professor Exam, Associate Professor Exam, Gazi Üniversitesi, August, 2018

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Bernoulli F-polynomials and Fibo-Bernoulli matrices**  
Kus S., Tuğlu N., Kim T.  
ADVANCES IN DIFFERENCE EQUATIONS, 2019 (Journal Indexed in SCI)
- II. **On the (p, q)-Chebyshev Polynomials and Related Polynomials**  
Kızilateş C., Tuğlu N., Çekim B.  
MATHEMATICS, vol.7, 2019 (Journal Indexed in SCI)
- III. **New Families of Three-Variable Polynomials Coupled with Well-Known Polynomials and Numbers**  
KIZILATEŞ C., ÇEKİM B., TUĞLU N., Kim T.  
SYMMETRY-BASEL, vol.11, no.2, 2019 (Journal Indexed in SCI)
- IV. **On the Bicomplex Generalized Tribonacci Quaternions**  
KIZILATEŞ C., Catarino P., TUĞLU N.  
MATHEMATICS, vol.7, no.1, 2019 (Journal Indexed in SCI)
- V. **SOME RESULTS ON THE q-ANALOGUES OF THE INCOMPLETE FIBONACCI AND LUCAS POLYNOMIALS**

Srivastava H. M. , Tuđlu N., Cetin M.

MISKOLC MATHEMATICAL NOTES, vol.20, pp.511-524, 2019 (Journal Indexed in SCI)

- VI. **Incomplete q-Chebyshev Polynomials**  
Ercan E., Cetin M., TUđLU N.  
FILOMAT, vol.32, no.10, pp.3599-3607, 2018 (Journal Indexed in SCI)
- VII. **q-Riordan representation**  
Baran F. Y. , TUđLU N.  
LINEAR ALGEBRA AND ITS APPLICATIONS, vol.525, pp.105-117, 2017 (Journal Indexed in SCI)
- VIII. **On the bounds for the spectral norms of geometric circulant matrices**  
KIZILATEđ C., TUđLU N.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2016 (Journal Indexed in SCI)
- IX. **q-Riordan array for q-Pascal matrix and its inverse matrix**  
Tuđlu N., Yesil F., Dziemianczuk M., Kocer E. G.  
TURKISH JOURNAL OF MATHEMATICS, vol.40, pp.1038-1048, 2016 (Journal Indexed in SCI)
- X. **On the harmonic and hyperharmonic Fibonacci numbers**  
TUđLU N., KIZILATEđ C., KESİM S.  
ADVANCES IN DIFFERENCE EQUATIONS, 2015 (Journal Indexed in SCI)
- XI. **On the norms of circulant and r-circulant matrices with the hyperharmonic Fibonacci numbers**  
TUđLU N., KIZILATEđ C.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2015 (Journal Indexed in SCI)
- XII. **GENERATING FUNCTIONS FOR THE GENERALIZED BIVARIATE FIBONACCI AND LUCAS POLYNOMIALS**  
Erkus-Duman E., TUđLU N.  
JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, vol.18, no.5, pp.815-821, 2015 (Journal Indexed in SCI)
- XIII. **The F-Analogue of Riordan Representation of Pascal Matrices via Fibonomial Coefficients**  
TUđLU N., Yesil F., Kocer E. G. , Dziemianczuk M.  
JOURNAL OF APPLIED MATHEMATICS, 2014 (Journal Indexed in SCI)
- XIV. **GENERALIZED F-NOMIAL MATRIX AND FACTORIZATIONS**  
AđCI M., TAđCI D., TUđLU N.  
ARS COMBINATORIA, vol.108, pp.81-95, 2013 (Journal Indexed in SCI)
- XV. **Incomplete Bivariate Fibonacci and Lucas p-Polynomials**  
TAđCI D., Firengiz M. C. , TUđLU N.  
DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2012 (Journal Indexed in SCI)
- XVI. **On Fibo-Pascal Matrix Involving k-Fibonacci and k-Pell Matrices**  
TAđCI D., TUđLU N., Ascı M.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.36, no.6, pp.1031-1037, 2011 (Journal Indexed in SCI)
- XVII. **Bivariate fibonacci like p-polynomials**  
TUđLU N., Kocer E. G. , Stakhov A.  
APPLIED MATHEMATICS AND COMPUTATION, vol.217, no.24, pp.10239-10246, 2011 (Journal Indexed in SCI)
- XVIII. **On the m-extension of the Fibonacci and Lucas p-numbers**  
Kocer E. G. , TUđLU N., Stakhov A.  
CHAOS SOLITONS & FRACTALS, vol.40, no.4, pp.1890-1906, 2009 (Journal Indexed in SCI)
- XIX. **Hyperbolic functions with second order recurrence sequences**  
Kocer E. G. , TUđLU N., Stakhov A.  
ARS COMBINATORIA, vol.88, pp.65-81, 2008 (Journal Indexed in SCI)
- XX. **Norms of circulant and semicirculant matrices with horadam's numbers**  
Kocer E. G. , Mansour T., TUđLU N.  
ARS COMBINATORIA, vol.85, pp.353-359, 2007 (Journal Indexed in SCI)
- XXI. **The Binet formulas for the Pell and Pell-Lucas p-numbers**  
Kocer E. G. , TUđLU N.  
ARS COMBINATORIA, vol.85, pp.3-17, 2007 (Journal Indexed in SCI)

- XXII. **On the representation of  $k$ -generalized Fibonacci and Lucas numbers**  
 Ocal A., TUĞLU N., Altinisik E.  
 APPLIED MATHEMATICS AND COMPUTATION, vol.170, no.1, pp.584-596, 2005 (Journal Indexed in SCI)
- XXIII. **GCD matrices, posets, and nonintersecting paths**  
 Altinisik E., Sagan B., TUĞLU N.  
 LINEAR & MULTILINEAR ALGEBRA, vol.53, no.2, pp.75-84, 2005 (Journal Indexed in SCI)
- XXIV. **A note on bounds for norms of the reciprocal LCM matrix**  
 Altinisik E., TUĞLU N., Haukkanen P.  
 MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.7, no.4, pp.491-496, 2004 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Some Identities of Harmonic and Hyperharmonic Fibonacci Numbers**  
 Cetin M., KIZILATEŞ C., Yesil Baran F., TUĞLU N.  
 GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.34, no.2, pp.493-504, 2021 (Journal Indexed in ESCI)
- II. **On the Norms of Geometric and Symmetric Geometric Circulant Matrices with the Tribonacci Number**  
 KIZILATEŞ C., TUĞLU N.  
 GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.2, pp.555-567, 2018 (Journal Indexed in ESCI)
- III.  **$q$ -GENERALIZATION OF BIPERIODIC FIBONACCI AND LUCAS POLYNOMIALS**  
 KIZILATEŞ C., Firengiz M. C., TUĞLU N.  
 JOURNAL OF MATHEMATICAL ANALYSIS, vol.8, no.5, pp.71-85, 2017 (Journal Indexed in ESCI)
- IV. **A new generalization of convolved  $(p,q)$ -Fibonacci and  $(p,q)$ -Lucas polynomials**  
 KIZILATEŞ C., TUĞLU N.  
 Journal of Mathematical and Computational Science, vol.7, no.6, pp.995-1005, 2017 (Refereed Journals of Other Institutions)
- V. **BINOMIAL TRANSFORMS OF QUADRAPELL SEQUENCES AND QUADRAPELL MATRIX SEQUENCES**  
 KIZILATEŞ C., TUĞLU N., ÇEKİM B.  
 JOURNAL OF SCIENCE AND ARTS, no.1, pp.69-80, 2017 (Journal Indexed in ESCI)
- VI. **Some  $q$  matrices related to  $Z$  transform**  
 YEŞİL BARAN F., TUĞLU N., KIZILATEŞ C.  
 Mathematical Sciences and Applications E-Notes, vol.3, no.1, pp.18-24, 2015 (Refereed Journals of Other Institutions)
- VII. **On the Norms of Some Special Matrices with the Harmonic Fibonacci Numbers**  
 TUĞLU N., KIZILATEŞ C.  
 GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.28, no.3, pp.497-501, 2015 (Journal Indexed in ESCI)
- VIII.  **$q$  - Bernoulli Matrices and Their Some Properties**  
 TUĞLU N., Kus S.  
 GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.28, no.2, pp.269-273, 2015 (Journal Indexed in ESCI)
- IX. **Some Combinatorial Identities of  $q$ -Harmonic and  $q$ -Hyperharmonic Numbers**  
 KIZILATEŞ C., TUĞLU N.  
 COMMUNICATIONS IN MATHEMATICS AND APPLICATIONS, vol.6, no.2, pp.33-40, 2015 (Journal Indexed in ESCI)
- X. **On the norms of some special matrices matrices with the harmonic Fibonacci numbers**  
 TUĞLU N., KIZILATEŞ C.  
 Gazi University Journal of Science, vol.28, no.3, pp.497-501, 2015 (Refereed Journals of Other Institutions)
- XI. **Some Identities for Fibonacci and Incomplete Fibonacci  $p$ -Numbers via the Symmetric Matrix Method**  
 ÇETİN FİRENGİZ M., TAŞCI D., TUĞLU N.  
 JOURNAL OF INTEGER SEQUENCES, vol.17, 2014 (Refereed Journals of Other Institutions)
- XII. **Determinant and Inverse of Meet and Join Matrices**  
 ALTINIŞIK E., TUĞLU N., Penti H.  
 International Journal of Mathematics and Mathematical Sciences, vol.2007, pp.1-11, 2007 (Refereed Journals of

Other Institutions)

**XIII. On the LCM-reciprocal GCD Matrices**

TUĞLU N., TAŞCI D.

Far East Journal of Mathematical Science, vol.6, pp.93-96, 2003 (Refereed Journals of Other Institutions)

**XIV. On the LCUM reciprocal GCUD matrices**

TUĞLU N., TAŞCI D.

Comptes Rendus De L Academie Bulgare Des Sciences, vol.55, no.12, pp.17-21, 2002 (Refereed Journals of Other Institutions)

## **Refereed Congress / Symposium Publications in Proceedings**

**I. Some properties of Fibo-Bernoulli matrices**

KUŞ S., TUĞLU N.

ICMME 2019, Konya, Turkey, 11 July 2019

**II. A SYMMETRIC ALGORITHM FOR SOME SPECIAL NUMBERS**

KIZILATEŞ C., YEŞİL BARAN F., ÇETİN M., TUĞLU N.

International Congress on Fundamental and Applied Sciences, Skopje, Macedonia, 18 - 22 June 2018

**III. ON THE RIORDAN ARRAYS WITH APPLICATIONS IN SOME SPECIAL NUMBERS**

YEŞİL BARAN F., KIZILATEŞ C., ÇETİN M., TUĞLU N.

International Congress on Fundamental and Applied Science, Skopje, Macedonia, 18 - 22 June 2018

**IV. A Note On Convolved Fibonacci and Lucas Polynomials**

KIZILATEŞ C., TUĞLU N.

International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018

**V. Binomial Transforms and Its Applications**

KIZILATEŞ C., TUĞLU N.

International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018

**VI. Some Results on q-Analogue of the Chebyshev Polynomials**

ÇETİN M., Ercan E., TUĞLU N.

International Conference on Number Theory dedicated by to the 70th birthdays of Professors Antanas Laurincikas and Eugenijus Manstavicius, Palang, Bangladesh, 9 - 15 September 2018

**VII. ON A NEW FAMILY OF THREE VARIABLES POLYNOMIALS**

KIZILATEŞ C., ÇEKİM B., TUĞLU N.

THE THIRD INTERNATIONAL CONFERENCE ON COMPUTATIONAL MATHEMATICS AND ENGINEERING SCIENCES (CMES-2018), Girne, Cyprus (Kktc), 4 - 06 May 2018

**VIII. On the Geometric Circulant Matrices with the Some Special Numbers**

KIZILATEŞ C., TUĞLU N.

International Conference on Mathematics and Mathematics Education, 11 - 13 May 2017

**IX. A Note on the Generalization q-Fibonacci Polynomials**

ÇETİN M., KIZILATEŞ C., TUĞLU N.

International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017

**X. On Incomplete q Chebyshev Polynomials**

Ercan E., ÇETİN FİRENGİZ M., TUĞLU N.

International Conference on Mathematics and Mathematics Education (ICMME-2016), 12 - 14 May 2016

**XI. On the q Harmonic and q Hyperharmonic Numbers**

KIZILATEŞ C., TUĞLU N.

International Conference on Mathematics and Mathematics Education (ICMME-2016), 12 - 14 May 2016

**XII. Some Incomplete q Polynomials**

ÇETİN FİRENGİZ M., TUĞLU N.

The International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.45

**XIII. q Analogue of Riordan Representation**

YEŐİL BARAN F., TUĐLU N.

Second International Symposium on Riordan Arrays and Related Topics, Lecco, Italy, 14 - 16 July 2015, pp.25

XIV. **Hiperharmonik Fibonacci Sayıların Bazı Özellikleri**

TUĐLU N., ÇETİN FİRENGİZ M., YEŐİL BARAN F., KIZILATEŐ C.

28. Ulusal Matematik Sempozyumu, Akdeniz Üniversitesi, Antalya, Turkey, 7 - 09 September 2015

XV. **Hyperharmonik Fibonacci Sayıları ve Uygulamaları**

KIZILATEŐ C., TUĐLU N., KESİM S.

28. Ulusal Matematik Sempozyumu, Akdeniz Üniversitesi, Antalya, Turkey, 09 July 2015

XVI. **Incomplete q Chebyshev Polinomları**

Ercan E., TUĐLU N., ÇETİN FİRENGİZ M.

28. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015

XVII. **Matrislerin Riordan Grupları**

TUĐLU N., YEŐİL BARAN F.

14. Matematik Sempozyumu, NiĐde Üniversitesi, NiĐde, Turkey, 14 - 16 May 2015

XVIII. **On the q-Sidel Matrix**

ÇETİN FİRENGİZ M., TUĐLU N.

Sixteenth International Conference on Fibonacci Numbers and Their Applications, New York, United States Of America, 20 - 27 July 2014, vol.52, pp.117-123

## Citations

Total Citations (WOS):189

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