

## Curriculum Vitae

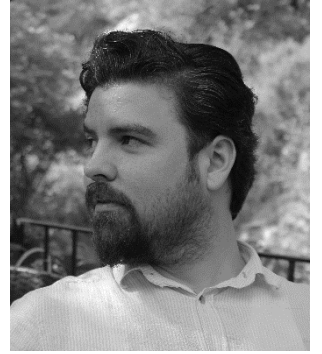
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**Name and Surname:** Ümit SARP

**Date / place of birth:** 05 August 1988 / Kepsut, Balıkesir, TURKEY

**E-mail:** [umitsarp@ymail.com](mailto:umitsarp@ymail.com) & [umit.sarp@ikcu.edu.tr](mailto:umit.sarp@ikcu.edu.tr)

**Web Page:** <http://www.umitsarp.com>



**Academic Positions:** Lecturer (Ph.D.) in İzmir Kâtip Çelebi University, Distance Education Application and Research Center, İzmir, TURKEY

**Foreign Language Exam Score:** 82.5-English (max 100)

Education	Program	University	Year
Undergraduate	Mathematics	Selçuk University	2007-2011
Pedagogical Formation	Educational Sciences	Afyon Kocatepe University	2011-2012
Master's Degree	Mathematics	Balıkesir University	2012-2014
Doctor's Degree	Mathematics	Balıkesir University	2014-2019
Undergraduate	Electrical and Electronics Engineering	Balıkesir University	2019 - ...

**Undergraduate Project:** "The Beamer Slide of Linear Algebra Book (5000 pages)", 2011, Konya, TURKEY.

**M.Sc. Thesis:** "Solving of some partial differential equations by Differential Transform Method and Comparison with other methods", 2014, Balıkesir, TURKEY.

**Ph.D. Thesis:** "Absolute Möbius Divisor Function and Properties", 2019, Balıkesir, TURKEY.

### A. Publications in SCI and SCI-E Journals:

**A1.** KIM D., SARP U. and IKIKARDES S., "Iterating the Sum of Möbius Divisor Function and Euler Totient Function", Mathematics, 2019, 7, 1083. DOI: 10.3390/math7111083.

**A2.** KIM D., SARP U. and IKIKARDES S., "Certain combinatoric convolution sums arising from Bernoulli and Euler Polynomials", Miskolc Mathematical Notes, Vol. 20 (2019), No. 1, pp. 311-33, DOI: 10.18514/MMN.2019.2470.

**A3.** KIM D., SARP U. and IKIKARDES S., Möbius-Stirling Numbers, (preparing).

**A4.** SARP U., Centered Polygonal Numbers and Polygonal Numbers, (preparing).

**A5.** Emin A. And Sarp U., "Which one to choose and why, Maple or Mathematica in 2022?" (on referee)

## **B. Publications in ESCI and TÜBİTAK-ULAKBİM Journals:**

**B1.** SARP U., EVIRGEN F. and IKIKARDES S., “*Applications of differential transformation method to solve systems of ordinary and partial differential equations*”, J. BAUN Inst. Sci. Technol., 20(2), 135-156, (2018). DOI:10.25092/baunfbed.423145. (TR)

**B2.** SARP U., Visualizing connections between types of polygonal number, The Mathematical Gazette, (accepted for March 2023 issue.) (ESCI)

**B3.** EMIN A. and SARP U., Simple Continued Fractions for Centered Polygonal Numbers, Transactions of A. Razmadze Mathematical Institute, (accepted for 2022.) (ESCI)

## **C. National Organization Duties:**

**C1.** SARP U., Balıkesir Büyükşehir Belediyesi ve Karesi İlçe Belediyesi, Matematik Cepte; Mobil Cihaz Uygulaması ”, 2015-... Balıkesir, TURKEY. (Committee Member)

## **D. International Organization Duties:**

**D1.** SARP U., The 24th International Conference of Jangeon Mathematical Society, July 20-23 2011, Konya, TURKEY. (Website and Printed Images)

**D2.** SARP U., International Congress in Honour of Professor Hari M. Srivastava, August 23-26, 2012 Bursa, TURKEY. (Committee Member)

**D3.** SARP U., International Conference on Algebra in Honour of Patrick Smith and John Clark’s 70th Birthdays, August 12-15 2013, Balıkesir, TURKEY. (Committee Member)

**D4.** SARP U., International Congress in Honour of Professor Ravi P. Agarwal at The Auditorium at the Campus of Uludag University, June 23-26 2014, Bursa, TURKEY. (Committee Member)

**D5.** SARP U., Introductory Workshop on Modular Methods in Diophantine Equations, September 08-11, 2014, Bilecik, TURKEY. (Committee Member)

**D6.** SARP U., 2<sup>nd</sup> International Conference on Algebra in Honour of Leonid BOKUT and Surender K. JAIN, August 26-29 2016, Balıkesir, TURKEY. (Committee Member)

**D7.** SARP U., International Autumn School on Computational Number Theory October 30 2017 – November 03 2017, Izmir Institute of Technology, İzmir, TURKEY. (Poster Design)

**D8.** SARP U., International Workshop on Elliptic Curves, Modular Forms and Langlands Functoriality, 10-11 May 2018, Bilecik, TURKEY. (Poster Design)

**D9.** SARP U., Summer School, Explicit and Computational Approaches to Galois Representations, July 3-7 2018, University of Luxembourg, LUXEMBOURG. (Poster Design)

**D10.** SARP U., Friendly Workshop on Diophantine Equations and Related problems (FWDERP-2019), July 6-8 2019, Bursa Uludağ University, Bursa, TURKEY. (Committee Member)

#### **E. National Conferences:**

**E1.** SARP U., 3. Ulusal Konya Ereğli Kemal Akman Meslek Yüksek Okulu Tebliğ Günleri, April 2011, Konya, TURKEY.

#### **F. International Conferences:**

**F1.** SARP U., (KURTULDU Y.) “*Using of GAP (Groups, Algorithms and Programming) in some semigroups*”, The 24th International Conference of Jangjeon Mathematical Society, July 20-23 2011, Konya, TURKEY.

**F2.** SARP U., Recent Trends in Nonlinear Partial Differential Equations and Applications, May 28-30 2014 Trieste, ITALY.

**F3.** SARP U., (IKIKARDES S.) “*On Solving Some Partial Differential Equations*”, International Congress in Honour of Professor Ravi P. Agarwal at The Auditorium at the Campus of Uludağ University, June 23-26 2014, Bursa, TURKEY.

**F4.** SARP U., (KIM D., IKIKARDES S.) “*A Study of Properties of the Absolute Möbiüs Divisor Function and Their for Leaf Veins*”, International Workshop on Mathematical Methods İn Engineering, Çankaya University, April 27-29 2017 Ankara, TURKEY.

**F5.** SARP U., (KIM D., IKIKARDES S.) “*The Shifted Absolute Möbiüs Divisor Function and Euler phi-function*”, 4th International Conference on Recent Advances in Pure and Applied, Istanbul Commerce University, May 11-15 2017 Kuşadası, Aydın, TURKEY.

**F6.** SARP U., (KIM D., IKIKARDES S.) “*Some Application about Möbiüs Function*”, International Conference on Pure and Applied Mathematics ICPAM 2018, September 11-13 2018, Van, TURKEY.

**F7.** SARP U., “*Centered Polygonal Numbers and Polygonal Numbers*”, International Symposium on Current Developments in Fundamental and Applied Mathematics Sciences ISCDFAMS, May 23-25 2022, Erzurum, TURKEY.

#### **G. Projects:**

**G1.** SARP U., (IKIKARDES S.) supported by the Scientific Research Projects Unit of Balıkesir University, Project number 2014/155, “*Solving of some partial differential equations by Differential Transform Method and Comparison with other methods (M.Sc. thesis Project)*”, 26 March 2014 Balıkesir, TURKEY.

**G2.** SARP U., (IKIKARDES S.) supported by the Scientific Research Projects Unit of Balıkesir University, Project number 2017/20, “*Möbiüs Function Sum and Relation of Polygon Numbers (PhD Thesis Project)*”, 2019, Balıkesir, TURKEY.

#### **H. Courses Thought:**

**H1.** COG 110, 2020-2021: Statistics for Geography and Earth Sciences.

**H2.** COG 110, 2021-2022: Statistics for Geography and Earth Sciences.

### **I. Certificates:**

**I1.** Google Academy, “*Eğitim Semineri*”, 26 March 2011 Konya, TURKEY.

**I2.** Serper Bilgisayar Kursu-Balıkesir, “*Web Tasarım (Dreamweaver, Photoshop, CorelDraw, Fireworks)*”, 02 March 2013 Balıkesir, TURKEY.

**I3.** Serper Bilgisayar Kursu-Balıkesir, “*Delphi*”, 29 April 2013 Balıkesir, TURKEY.

**I4.** Serper Bilgisayar Kursu-Balıkesir, “*Visual C# 2010*”, 06 August 2013 Balıkesir, TURKEY.

**I5.** Serper Bilgisayar Kursu-Balıkesir, “*MS SQL SERVER*”, 10 September 2013 Balıkesir, TURKEY.

**I6.** Serper Bilgisayar Kursu-Balıkesir, “*.NET*”, 10 September 2013 Balıkesir, TURKEY.

**I7.** Serper Bilgisayar Kursu-Balıkesir, “*Bilgisayar Programcılığı (MEB onaylı)*”, 07 October 2013 Balıkesir, TURKEY.

**I8.** Sakarya Üniversitesi Sürekli Eğitim Merkezi, “*İş ve Meslek Danışmanlığı Mesleki Yeterlilik Belgesi*”, 07 Ocak 2014 Sakarya, TURKEY.

**I9.** UniCertificate (Universal Certificate), “*SolidWorks*”, 04 Şubat 2014 TURKEY.

**I10.** Sakarya Üniversitesi Sürekli Eğitim Merkezi, “*Bilgi İşlem Destek Elemanı Mesleki Yeterlilik Belgesi*”, 10 September 2014 Sakarya, TURKEY.

**I11.** Balıkesir Büyükşehir Belediyesi ve Karesi ilçe Belediyesi, “*Matematik Cepte Mobil Cihaz Uygulaması Desteği Teşekkür Belgesi*”, 22 October 2016 Balıkesir, TURKEY.

**I12.** Serper Bilgisayar Kursu-Balıkesir, Mikro Ticaret ve Muhasebe Uygulamaları Standart Eğitim Belgesi, 2013 Balıkesir, TURKEY.

### **J. Academical Positions:**

**J1.** Social Security Inspector, Social Security Institution, 2016-2020,

**J2.** Asst. Prof. Dr., Mathematics,

### **Programs:**

**Office;** good

**Maple;** good

**Latex;** good

**Matematica;** good

**Visual C# 2010;** good

**Dreamweaver;** good

**Photoshop;** good

**CorelDraw;** quite good

**Matlab;** quite good  
**Gap;** quite good  
**Geogebra;** good

**Fireworks;** quite good  
**Illustrator;** quite good  
**ArcGIS;** learning

**Some of the pages I have designed, helped or moderated:**

- <http://ica.balikesir.edu.tr>
- <http://fwderp2019.uludag.edu.tr>
- <https://apps.apple.com/tr/app/matematik-cepte/id1046539770?l=tr>

**Research Interest:**

- Number Theory
- Algebraic Number Theory
- Combinatorics
- Distance Mathematics Education
- Numbers
- Figurate Numbers
- Engineering, Applied and Computational Mathematics
- Modeling and Simulation
- Optimization
- Physical Mathematics
- Biological Mathematics
- Numerical Methods
- Mathematical modeling of nature