

Doç. Dr. KAMIL ERKAN

Düzenleme tarihi: 14/11/2017

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EĞİTİM ve AKADEMİK ÜNVANLAR

Doçentlik, Yer Bilimleri ve Mühendisliği – 2016

Üniversiteler Arası Kurul

Doktora, Jeofizik – 2007

College of Science, Southern Methodist University

Yüksek Lisans, Fizik – 2000

Fen Fakültesi, Bilkent Üniversitesi

Lisans, Fizik - 1998

Fen Fakültesi, Bilkent Üniversitesi

ÇALIŞMA DENEYİMİ:

Öğretim üyesi (Doç. Dr.) (2017-)

Çevre Mühendisliği Bölümü, Marmara Üniversitesi, Göztepe, İstanbul, Türkiye

Öğretim üyesi (Y. Doç. Dr.) (2012-2017)

İnşaat Mühendisliği Bölümü, Marmara Üniversitesi, Göztepe, İstanbul, Türkiye

Misafir araştırmacı (2011–2012)

Yer ve Deniz Bilimleri Enstitüsü, Marmara Araştırma Merkezi, Gebze, Türkiye

Doktora sonrası araştırmacı (2008–2011)

School of Earth Sciences, Ohio State University, Columbus, Ohio, USA

Doktora sonrası araştırmacı (2007–2007)

Department of Earth Sciences, Southern Methodist University, Dallas, Texas, USA

Araştırma görevlisi (2002-2007)

Department of Earth Sciences, Southern Methodist University, Dallas, Texas, USA

Araştırma görevlisi (2001-2002)

Department of Electrical Engineering, Southern Methodist University, Dallas, Texas

Fizik öğretmeni (2000-2001)

TED Ankara Koleji, Ankara, Türkiye

Araştırma görevlisi (1998-2000)

Fizik Bölümü, Bilkent Üniversitesi, Ankara, Türkiye

VERDİĞİ DERSLER:

- Physics I & II
- Calculus I, II, III
- Numerical Analysis
- Differential Equations
- Energy Systems
- Earth Systems

ÖDÜLLER ve BURSLAR

- K. and W. A. Heiskanen Kıdemli araştırmacı ödülü, Ohio State University, 2011.
- BİDEB 2232 yurda dönüş araştırma bursu, TÜBİTAK, 2011.
- Temel Bilimler lisans programları teşvik ödülü, TÜBİTAK, 1993-1996.
- Bilkent Üniversitesi yüksek lisans bursu, 1998-2000.
- Bilkent Üniversitesi lisans bursu, 1993-1998.

PROJE ÖDÜLLERİ:

- K. Erkan (Yürütücü), “Kuyu sıcaklık-derinlik ölçüm sistemi geliştirme ve Türkiye’de son iki yüzyıllık iklim değişiminin araştırılması” (2013-, TÜBİTAK-1001 Projesi, Proje No 113R019, 377,312 TL).
- K. Erkan (Yürütücü), “Kuyu Sıcaklık-Derinlik Verilerinin Paleoklimsel Modellemesi ve Batı Anadolu’da Yakın Zamanlı İklimsel Değişimler için Uygulanması” (2015-2016, Marmara Üniversitesi Bilimsel Araştırma Projeleri Destek Birimi Proje No FEN-C-YLP-110915-0437, 12,940 TL).
- K. Erkan (Yürütücü), “Batı Anadolu’da İklim Değişiminin Kuyu Paleo-iklim Yöntemiyle Belirlenmesi” (2013-2015, Marmara Üniversitesi Bilimsel Araştırma Projeleri Destek Birimi Proje No FEN-A-100413-0127, 49,092 TL).

YAYINLAR:

Makaleler (SCI):

- **Erkan, K.**, Akkoyunlu, B., Balkan, E., Tayanç, M. (2017), “A portable borehole temperature logging system using four-wire resistance method”, *Journal of Geophysics and Engineering*, 14, 1413-1419.
- Balkan, E., **Erkan, K.**, Şalk, M. (2017), “Thermal conductivity of major rock types in western and central Anatolian regions, Turkey”, *Journal of Geophysics and Engineering*, 14, 909-919.
- Jia, Y. Jin-woo, K., Shum, C.K., Lu, Z., Ding, X., Zhang, L., **Erkan, K.**, Kuo, C., Shang, K., Tseng, K.H., Yi, Y., (2016), “Characterization of Active Layer Thickening Rate over the Northern Qinghai-Tibetan Plateau Permafrost Region Using ALOS Interferometric Synthetic Aperture Radar Data, 2007–2009”, *Remote Sensing*, 9, 84.

- **Erkan, K.** (2015) “Geothermal investigations in western Anatolia using equilibrium temperatures from shallow boreholes”, *Solid Earth*, 6, 103-113.
- **Erkan, K.**, C. Jekeli, and C.K. Shum (2012), “Fusion of gravity gradient and magnetic field data for discrimination of anomalies using deformation analysis”, *Geophysics*, 77 (3), F13.
- Wang, L., C.K. Shum, F.J. Simons, A. Tassara, **K. Erkan**, C. Jekeli, A. Braun, C. Kou, H. Lee, D-N Yuan (2012), “Coseismic slip of the 2010 Mw 8.8 Maule, Chile, earthquake quantified by the inversion of GRACE observations”, *Earth and Planetary Science Letters*, 335, 167-179.
- **Erkan, K.** and C. Jekeli, (2011), “A comparative analysis of geophysical fields for multi-sensor applications”, *Journal of Applied Geophysics*, 74(2-3), 142-150.
- **Erkan, K.**, C.K. Shum, L. Wang, J. Guo, C. Jekeli, H. Lee, W. R. Panero, J. Duan, Z. Huang, and H. Wang, (2011), “Geodetic constraints on the Qinghai-Tibetan Plateau present-day geophysical processes”, *Terrestrial, Atmospheric, and Ocean Sciences*, 22, No 2, 241-253.
- **Erkan, K.**, and D.D. Blackwell (2009), “The transient thermal regimes in the Sierra Nevada and Baja California extinct outer arcs following the cessation of Farallon subduction”, *Journal of Geophysical Research*, 114, B02107.
- **Erkan K.**, and D.D. Blackwell (2008), “A thermal test of the post-subduction tectonic evolution along the California transform margin”, *Geophysical Research Letters*, 35(7), L07309.
- **Erkan, K.**, G. Holdmann, W. Benoit, and D.D. Blackwell (2008), “Understanding Chena Hot Springs Alaska geothermal system using temperature and pressure data from explorations wells”, *Geothermics*, 37(6), 565-585.
- Tanatar, B. and **K. Erkan** (2000), “Strongly interacting one-dimensional Bose-Einstein Condensates in harmonic traps”, *Physical Review A*, 62, 053601.

Makaleler (Diğer İndeksler):

- Negraru, P.T., D.D. Blackwell, and **K. Erkan** (2008), “Heat flow and geothermal potential in the South-central United States”, *Natural Resource Research*, 17(4), 227-243.

Kitap bölümü:

- Jekeli, Christopher, **Kamil Erkan**, and Ou Huang (2010), "Gravity vs pseudo-Gravity: a comparison based on magnetic and gravity gradient measurements", in: Gravity, Geoid and Earth Observation, pp. 123-127, Springer Berlin Heidelberg.

Diğer yayınlar (Google Scholar tarafından indeksli):

- **Erkan, K.** (2015) “Geophysical Investigations on Gravity Gradiometry and Magnetic Data over the Wichita Uplift Region, Southwestern Oklahoma” *OSU Geodetic Science and Surveying*, Report No 509.
- **Erkan, K.** (2014) “Crustal heat flow measurements in western Anatolia from borehole equilibrium temperatures”, *Solid Earth Discussions*, 6, 403-426.

- **Erkan, K.** (2008) “A comparative overview of geophysical methods” *OSU Geodetic Science and Surveying*, Report No 488.

Konferans bildirileri (uluslararası):

- **Erkan K.,** Doğruel M., Akkoyunlu B., Bayat K., Şişman A., Balkan E, Tayanç M. (2017), “Development of a digital data transmission portable borehole temperature logging system for climatological and geothermal studies”, 9th International Conference on Image Processing, Wavelet and Applications (IWW), 5-8 November 2017, Kars, Turkey.
- Tayanç M., **Erkan K.,** Akkoyunlu B., Balatacı H. (2017), “Statistical Analysis of Temperature and Precipitation Series of Turkey”, 9th International Conference on Image Processing, Wavelet and Applications (IWW), 5-8 November 2017, Kars, Turkey.
- **Erkan, K.,** Tayanç, M., Akkoyunlu, B.O., Doğruel, M., Inal, M.O., Balkan, E. (2016), “20th century climate changes in western Turkey from borehole climatologic records”, 8th International Conference on Image Processing, Wavelet and Applications (IWW), 22-24 September 2016, Istanbul, Turkey.
- Inal, M.O., **Erkan, K.,** Tayanç, M., Akkoyunlu, B., Balkan, E., Eren, E.S., and Aydın Y. (2016), “Paleoclimatic Modeling of Borehole Temperature-Depth Data and Applications for the Recent Climatic Changes in Western Anatolia”, *Geophysical Research Abstracts*, Vol. 18, EGU2016-13639-1.
- **Erkan, K,** E. Balkan, F. Atikol, and T. Başaran (2016), “Development of a high precision thermistor probe for paleo-climate studies”, presented at International Conference at the Anatolian Peak (IPCAP) 2016, 25-27 February 2016, Erzurum, Turkey.
- **Erkan, K.,** M. Doğruel, K. Bayat, B. Akkoyunlu, M. Tayanç, E. Balkan, S. Hamamcı (2015), “Development of a Digital Output Temperature Probe for Precision Measurements”, *GRC Transactions*, 39, 1069-1072, presented at GRC Annual Meeting, September 20-23, 2015, Reno, NV, USA.
- **Erkan, K.** (2014), “Basin depth distribution in western Anatolia Using EGM2008 Gravity Model”, *GRC Transactions*, 38, 123-125, presented at GRC Annual Meeting, September 28-October 1, 2014, Portland, Oregon, USA.
- **Erkan, K.** (2014), “Crustal heat flow analysis in Central Anatolia from borehole equilibrium temperatures”, *Geophysical Research abstracts*, 16, EGU2014-13064, presented at EGU General Assembly 2014, 27 April - 2 May 2014, Vienna, Austria.
- **Erkan, K.** (2013), “Crustal heat flow in Western Anatolia from borehole temperature-depth measurements”, *Geophysical Research abstracts*, 15, EGU2013-13891, presented at EGU General Assembly 2013, 7-12 April 2013, Vienna, Austria.
- Thakur, M, D. D. Blackwell, & **K. Erkan** (2012), “The regional thermal regime in Dixie Valley, Nevada”, *GRC Transactions*, 36, 59-68.
- **Erkan, K.,** and C. Jekeli, (2009), “Application of deformation theory for integrated modeling of gravity gradiometric and magnetic field data”, *Eos Trans. AGU*, 90(52), G33A-0627, presented at *AGU Fall Meeting*, December 14-18, 2009, San Francisco, CA.

- **Erkan, K.**, C. Jekeli, & C. Shum (2008), “A quantitative approach for detection of subsurface voids using multi-sensor data fusion”, *Eos Trans. AGU*, 89(53), T21B-0586, presented at *AGU Fall Meeting*, December 15-19, 2008, San Francisco, CA.
- **Erkan, K.** and D. Blackwell (2007), “Correlation of shear deformation and heat flow along the Coast and Insular belts of Western British Columbia”, *Eos Trans. AGU*, 88(52), presented at *AGU Fall Meeting*, December 10-14, 2007, San Francisco, CA.
- **Erkan, K.**, G. Holdmann, D. Benoit, and D. Blackwell (2007), “Thermal characteristics of the Chena hot springs Alaska geothermal system”, *Proceedings: Thirty-second Workshop on Geothermal Reservoir Engineering*, SGP-TR-183, January 22-24, 2007, Stanford, CA.
- **Erkan, K.**, and D. Blackwell (2006), “Thermal implications of the cessation of subduction in the Sierra Nevada and Baja-California arcs”, *Eos Trans. AGU*, 87(52), S43A-1357, presented at *AGU Fall Meeting*, December 11-15, 2006, San Francisco, CA.
- **Erkan, K.**, and D. Blackwell (2005), “Holes in the hole-in-the-plate model: The late Cenozoic thermal regime of Coastal California”, *Eos Trans. AGU*, 86(52), S41B-0993, presented at *AGU Fall Meeting*, December 5-9, 2006, San Francisco, CA.
- **Erkan, K.**, D. Blackwell, and M. Leidig (2005), “Crustal thermal regime at the Geysers/Clear Lake area, California”, *Proceedings of the World Geothermal Congress*, April 24-29, 2005, Antalya, Turkey.

Konferans bildirileri (ulusal):

- **Erkan, K.**, Jekeli, C, Shum C.K. (2017), “Erciyes Havzası yapısının gravite yöntemiyle incelenmesi” Aktif Tektonik Araştırma Grubu (ATAG) 21. Çalıştayı, 26-28 Ekim 2017, Afyon.
- **Erkan, K.**, (2012), “Jeolojik yapıların tanımlanmasında manyetik alan ölçümlerinin istatistiksel analizi” Aktif Tektonik Araştırma Grubu (ATAG) 16. Çalıştayı, 18-19 Ekim 2012, İstanbul.
- **Erkan, K.**, (2011), “Kabuksal ısı akısı ölçüm teknikleri ve uygulama alanları” Aktif Tektonik Araştırma Grubu (ATAG) 15. Çalıştayı, 19-22 Ekim 2011, Adana.