

## Asst. Prof. Nilay Gülyüz

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-1230-6950

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### Education Information

Postgraduate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği Anabilim Dalı, Turkey 2015 - 2018

Doctorate, University of Strathclyde, Faculty Of Engineering, Department Of Civil And Environmental Engineering, United Kingdom 2012 - 2017

Undergraduate, Middle East Technical University, Faculty Of Engineering, Jeoloji Mühendisliği, Turkey 2006 - 2011

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Education Management and Planning, Image Analysis in Geosciences, Basel University, 2017

### Dissertations

Postgraduate, Tuşba, Van Bölgesindeki Antik Su Yapılarının Jeo-Mühendislik Özelliklerinin İncelenmesi, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği Anabilim Dalı, 2018

Doctorate, Textural and Structural Characteristics of the Kestanelik Epithermal Vein System, NW Turkey: Implications for permeability enhancement and gold exploration in epithermal systems, University of Strathclyde, Department Of Civil And Environmental Engineering, Engineering Geosciences And Geomechanics, 2017

### Research Areas

Geological Engineering, General Geology, Structural Geology, Geology, Ore Deposits-Geochemistry, Mineral Deposits, Metallic Mineral Deposits, Applied Geology, Engineering Geology foundations, earthquakes, dams, reservoirs, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Van Yüzüncü Yil University, Mühendislik Fakültesi, Jeoloji Mühendisliği, 2014 - Continues  
Research Assistant, University of Strathclyde, Faculty Of Engineering, Department Of Civil And Environmental  
Engineering, 2012 - 2013

## Academic and Administrative Experience

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Application of (U-Th)/He hematite geochronology to the Çaldağ lateritic Ni-Co deposit, Western Anatolia: Implications for multi-stage weathering events during interglacial periods/segments**  
Gülyüz N., Kuşcu İ., Danişık M.  
Ore Geology Reviews, vol.172, 2024 (SCI-Expanded)
- II. **Multiphase deformation, fluid flow and mineralization in epithermal systems: Inferences from structures, vein textures and breccias of the Kestanelik epithermal Au-Ag deposit, NW Turkey**  
Gülyüz N., Shipton Z. K., Kuşcu İ.  
Turkish Journal of Earth Sciences, vol.32, no.1, pp.75-95, 2023 (SCI-Expanded)
- III. **Hydrogeochemical investigation of an epithermal mineralization bearing basin using multivariate statistical techniques and isotopic evidence of groundwater: Kestanelik Sub-Basin, Lapseki, Turkey**  
Dişli E., Gülyüz N.  
Chemie der Erde, vol.80, 2020 (SCI-Expanded)
- IV. **Geological and mineralization characteristics of the Kestanelik epithermal Au-Ag deposit in the Tethyan Metallogenic Belt, NW Turkey**  
Gulyuz N., Gülyüz E., Shipton Z. K., KUŞCU İ., Lord R. A.  
GEOSCIENCES JOURNAL, vol.24, no.4, pp.407-424, 2020 (SCI-Expanded)
- V. **Repeated reactivation of clogged permeable pathways in epithermal gold deposits: Kestanelik epithermal vein system, NW Turkey**  
Gulyuz N., Shipton Z. K., Kuscı I., Lord R. A., KAYMAKCI N., Gülyüz E., GLADWELL D. R.  
JOURNAL OF THE GEOLOGICAL SOCIETY, vol.175, no.3, pp.509-524, 2018 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **URARTU SU TEMİN SİSTEMİ (TUŞBA/VAN) YER SEÇİM KRİTERLERİNİNDEĞERLENDİRİLMESİ**  
Gülyüz N., Selçuk L., Taymuş R. B., Sağlam Selçuk A., Gülyüz E.  
72.Türkiye Jeoloji Kurultayı, Ankara, Turkey, 28 January - 01 February 2019, pp.1
- II. **Multiphase brecciation, fluid flow and mineralization in a well exposed LS epithermal gold deposit, Kestanelik, NW Turkey**  
Gülyüz N., Shipton Z. K., Kuşcu İ., Lord R. A., Gülyüz E., Kaymakçı N.  
9th International Symposium on Eastern Mediterranean Geology, Antalya, Turkey, 7 - 11 May 2018, pp.185
- III. **Vein textures of the Kestanelik epithermal gold deposit, NW Turkey: An insight into the efficiency of gold precipitation mechanisms in epithermal systems**  
Gülyüz N., Shipton Z. K., Kuşcu İ., Lunn R., Lord R. A., Gülyüz E., Kaymakçı N.  
9th International Symposium on Eastern Mediterranean Geology, Antalya, Turkey, 7 - 11 May 2018, pp.201
- IV. **ORE DISTRIBUTION WITHIN AN EPITHERMAL QUARTZ VEIN SYSTEM, KESTANELİK, LAPSEKİ, NW TURKEY: IMPLICATIONS FOR GOLD EXPLORATION**  
Gülyüz N., Shipton Z. K., Lord R. A., Gülyüz E., Kaymakçı N., Kuşcu İ., Gladwell D. R.  
71th Geological Congress of Turkey, Ankara, Turkey, 23 - 27 April 2018, pp.567-568
- V. **Facies Analysis of the Tandogdu Travertines, Van, Eastern Anatolia, Turkey: implications for the active tectonic deformation behind the formation and evolution of the travertines**

Yeşilova Ç., Yeşilova P. G., Açlan M., Gülyüz N.

EGU 2017, Viyana, Austria, 23 - 28 April 2017, vol.19, pp.17507

- VI. **Gold grade distribution within an epithermal quartz vein system, Kestanelik, NW Turkey: implications for gold exploration**  
Gülyüz N., Shipton Z. K., Gülyüz E., Lord R. A., Kaymakçı N., Kuşcu İ.  
EGU 2017, Viyana, Austria, 23 - 28 April 2017, vol.19, pp.1210
- VII. **Structural Controls on Kestanelik Epithermal Vein System: Implications for permeability enhancement mechanisms during epithermal gold mineralization**  
Gülyüz N., Shipton Z. K., Kuşcu İ., Lord R. A., Kaymakçı N., Gladwell D. R.  
70th Turkish Geological Congress, Ankara, Turkey, 10 - 14 April 2017, pp.472
- VIII. **Structural controls on Kestanelik epithermal vein system, Lapseki, NW Turkey: implications for permeability enhancement processes during epithermal gold mineralization**  
Gülyüz N., Shipton Z. K., Kuşcu İ., Lord R. A., Kaymakçı N., Gladwell D. R.  
SEG 2016 Conference-Tethyan Tectonics and Metallogeny, İzmir, Turkey, 25 - 28 September 2016, pp.1
- IX. **Permeability enhancement during gold mineralization: Evidences from Kestanelik epithermal vein system, NW Turkey**  
Gülyüz N., Shipton Z. K., Kuşcu İ., Lord R. A., Gladwell D. R., Kaymakçı N.  
EGU 2016, Viyana, Austria, 17 - 22 April 2016, vol.18, pp.873
- X. **Structural mechanisms of vein formation and evolution in a low sulfidation epithermal vein gold deposit, Kestanelik, Turkey**  
Gülyüz N., Shipton Z. K., Lord R. A., Gladwell D. R., Kaymakçı N.  
Geological Society of London Tectonic Studies Group Annual Meeting 2014, Cardiff, United Kingdom, 6 - 08 January 2014, vol.10, pp.14

## Supported Projects

Gülyüz N., Meydan A. F., TUBITAK Project, Orta Anadolu Tersiyer Sedimanter Havzalarının (Haymana, Tuzgölü, Ayhan, Büyükkışla) Düşük Sıcaklık (<200°C) Termokronolojisi: Dalma-Batma ve Çarpışma Olaylarının Havza Çökellerindeki Yansımalarına Termo-Dinamik Yaklaşım, 2018 - Continues

Gülyüz N., Kuşcu İ., TUBITAK Project, Dating Caldag-Manisa and Karacam-Eskisehir Lateritic Nickel Deposits by (U+Th)/4He Method and Determination of their Scandium Element Content: Climatic and Economic Implications, 2020 - 2021

Gülyüz E., Meydan A. F., Gülyüz N., TUBITAK Project, Orta Anadolu Tersiyer Sedimanter Havzalarının (Haymana, Tuzgölü, Ayhan-Büyükkışla) Düşük Sıcaklık (200°C) Termokronolojisi: Dalma-Batma Ve Çarpışma Olaylarının Havza Çökellerindeki Yansımalarına Termo-Dinamik Yaklaşım, 2017 - 2021

Gülyüz N., Other International Funding Programs, Textural and Structural Characteristics of the Kestanelik Epithermal Vein System, NW Turkey: implications for permeability enhancement mechanisms and gold exploration in epithermal systems, 2012 - 2017

## Memberships / Tasks in Scientific Organizations

Maden Jeologları Derneği, Member, 2018 - Continues

TMMOB Jeoloji Mühendisleri Odası, Member, 2012 - Continues

## Scientific Refereeing

GEODINAMICA ACTA, SCI Journal, September 2020

TURKISH JOURNAL OF EARTH SCIENCES, SCI Journal, March 2019

## Scientific Research / Working Group Memberships

Mineral Deposits Studies Group, Geological Society of London, England, <https://www.strath.ac.uk/research>, 2017 - Continues

Faults and Fluid Flow Research Group, University of Strathclyde, England, <https://www.strath.ac.uk/research>, 2012 - Continues

## Metrics

Publication: 19

Citation (WoS): 13

Citation (Scopus): 24

H-Index (WoS): 2

H-Index (Scopus): 3

## Congress and Symposium Activities

SEG 2016 Conference Tethyan Tectonics and Metallogeny, Session Moderator, İzmir, Turkey, 2018

Uluslararası Katılımlı Doğu Anadolu Jeoloji Sempozyumu 2015, Session Moderator, Van, Turkey, 2015

## Scholarships

PhD scholarship, University, 2012 - Continues

Faculty of Engineering Scholarship, Official Institutions of Foreign Countries, 2012 - Continues

## Awards

Gülyüz N., Early Career Scientist Travel Award, European Geosciences Union, April 2017

Gülyüz N., Department of Civil and Environmental Engineering's Travel Grant, University of Strathclyde, February 2017

Gülyüz N., SEG Travel Grant, Society of Economic Geologists, August 2016

Gülyüz N., Early Career Scientist Travel Award, European Geosciences Union, April 2016

Gülyüz N., Erguvanlı Mühendislik Jeoloji Ödülü, Uluslararası Mühendislik Jeoloji Türk Milli Komitesi, July 2011

## Non Academic Experience

University of Strathclyde-Department of Civil and Environmental Engineering

Business Establishment Private, Srk Danışmanlık Türkiye-Srk Consulting Turkey

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SRK Danışmanlık-SRK Consulting Turkey