

# Deniz TUNCAY, M.Sc

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## HIGHER EDUCATION

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|----------------|---|
| 2018 - Present | <b>Ph.D.</b> West Virginia University, USA, Department of Mining Engineering.   |
| 2011 - 2014    | <b>M.Sc.</b> Middle East Technical University, TURKEY, Department of Mining Engineering. Thesis: Reliability Analysis for Two Draglines in Tunçbilek Lignite Mine. Supervisor: Assoc. Prof. Dr. Nuray Demirel |
| 2006 – 2011    | <b>B.Sc.</b> Middle East Technical University, TURKEY, Department of Mining Engineering (C.GPA 3.1/4.0)   |

## WORK EXPERIENCE

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| 2017 – present | <b>Research Assistant</b> , WVU Department of Mining Engineering                               |
| 2012 – 2017    | <b>Research and Teaching Assistant</b> , METU Department of Mining Engineering                 |
| July 2008      | <b>Intern</b> , META Nickel Cobalt Mining Co. (Gördes/Manisa/TURKEY)                           |
| August 2009    | <b>Intern</b> , Turkish Coal Enterprises, Güney Ege Lignite Enterprises (Yatağan/Muğla/TURKEY) |

## RESEARH EXPERIENCE

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|----------------|---|
| 2011 – 2013    | <b>Researcher and Scholarship Student</b> , Research Project funded by The Scientific and Technological Research Council of Turkey (TUBITAK) <ul style="list-style-type: none"><li>- <b>Project Name:</b> Development of a System Reliability Model for Optimum Efficiency and Maintenance of Draglines (Project Code: 111M320)</li></ul> |
| 2018 – present | <b>Researcher</b> , Research Project funded by The Alpha Foundation <ul style="list-style-type: none"><li>- <b>Project Name:</b> A Practical, Mechanics-based Approach to Pillar Design</li></ul>   |

## **PUBLICATIONS**

### Journal Papers:

1. Tuncay, D., & Demirel, N. (2017). Reliability Analysis of a Dragline Using Fault Tree Analysis. Scientific Mining Journal, (p. 55-64)

### Conference Papers:

1. Tuncay, D., & Demirel, N. (2015). Review of Graphical Methods Utilized in System Reliability. Proceedings of the 24<sup>th</sup> International Mining Congress of Turkey, (p. 925-932).
- 2\*. Golbasi, O., Demirel, N., & Tuncay, D. (2013). Çekme Kepçeli Yerkazarların Arıza Türleri ve Sınıflandırılması. 4<sup>th</sup> Mining Machinery Symposium and Exhibition, (p. 47-55).
- 3\*. Golbasi, O., Demirel, N., Tuncay, D., Duzgun, S., & Kestel, S. (2013). Reliability of Dragline's Subsystems. Proceedings of 23<sup>rd</sup> International Mining Congress and Exhibition of Turkey, (p. 21-27).

\*. in Turkish

## **COMPUTER APPLICATIONS**

Mining Engineering	- Micromine - Phase <sup>2</sup> - VentSim - VNet-PC - FLAC 3D - LaModel - ARMPS / ALPS
Statistics and Reliability	- Minitab - Reliasoft Weibull++ - Reliasoft BlockSim
Technical Drawing	- KeyCreator
Optimization	- Lingo - Lindo - Excel Solver