

# Ceren Ayşe Deral

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**Research Interests** General Relativity, Differential Geometry,  
Asymptotic Symmetries, Supersymmetry,  
Supergravity, Consistent Reduction and Truncations,  
Lie Group and Lie Algebra Representations,  
Geometric Structures in Physics

## Education

**2021 - 2026** (exp.d) PhD in Mathematics - Boğaziçi University, Istanbul  
*Advisor: Prof. N. Sadık Değer*

**2018 - 2021** MSc in Mathematics - Boğaziçi University, Istanbul  
*Thesis Title: "Asymptotically Anti-de Sitter Spacetimes in Three Dimensions"*  
*Advisor: Prof. N. Sadık Değer*

**2006 - 2017** BSc in Mathematics - Boğaziçi University, Istanbul

## Experience

**2024 - 2026** Research Assistant  
*"New Supergravity Theories in Three Dimensions",*  
BAP/123N953, Boğaziçi University, Istanbul

**2019 - Present** Teaching Assistant  
*Department of Mathematics, Boğaziçi University, Istanbul*

**2018 - 2020** Research Assistant  
*"Supersymmetric Solutions to Three-Dimensional Supergravity Theories",*  
BAP/116F137, Boğaziçi University, Istanbul

## Preprints and Publications

[2] N. S. Deger and C. A. Deral, "Timelike Supersymmetric Solutions of  $D=3$ ,  $N=4$  Supergravity," arXiv:2411.04437 [hep-th].

[1] N. S. Deger, C. A. Deral, A. Saha and Ö. Sarıoğlu, "Rotating  $AdS_3 \times S^3$  and dyonic strings from 3-dimensions," JHEP **10**, 185 (2024), arXiv:2408.03197 [hep-th].

## Grants and Awards

- **Undergraduate Scholarship - TÜBİTAK (Scientific and Technological Research Council of Turkey)**
- **"Gülnihal Yücel" Best TA Award, 2021 - Department of Mathematics, Boğaziçi University**

## References

Prof. Sadık Değer (Advisor)  
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