

# CURRICULUM VITAE

Fulya Kiroğlu

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## Contact information

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## Education

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**Northwestern University**, Evanston, IL, USA

Astronomy, Ph.D student, Sep 2019 – Present

Advisor: Frederic A. Rasio

CGPA: 3.94/4.00

**Middle East Technical University**, Ankara, Turkey

Physics, M.Sc., Sep 2017 – Jul 2019

Dissertation: *Semi-analytical calculations of the secular evolution of 4-body systems*

Advisor: M. Atakan Gürkan

CGPA: 3.86/4.00

**Middle East Technical University**, Ankara, Turkey

Physics, B.Sc., Sep 2013 – Jun 2017

Dissertation: *Meson spectrum and radiative decays*

Advisor: Altuğ Özpineci

CGPA: 3.55/4.00

## Employment

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Northwestern University, Evanston, IL, USA

Teaching assistant, Sep 2021 – Present

Middle East Technical University, Ankara, Turkey

Teaching assistant, Feb 2018 – Aug 2019

## Research interest

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Theoretical astrophysics: globular cluster simulations, astrophysical applications of gravitational microlensing

Computational astrophysics:  $N$ -body simulations, parallel algorithms

## Teaching experience

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During my graduate years at Middle East Technical University, I assisted the following courses:

PHYS 105-106	General Physics I - II (Laboratory) (2018, 2019)
PHYS 202	<a href="#">Modern Physics</a> (2018, 2019)
PHYS 207	<a href="#">Concepts of Modern Physics</a>
ASTR 312	Modern Astrophysics II

During my graduate years at Northwestern University, I assisted the following courses:

PHYS 332	<a href="#">Statistical Mechanics</a> (Spring 2021)
ASTR 120	Highlights of Astronomy (Fall 2021)

## Scholarships, honors, awards

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5. CIERA BoV Graduate Fellowship, 2021 – 2022  
*covering tuition and monthly stipend; to support K-12 STEM activities*
4. Fulbright PhD Scholarship, 2019 – 2021  
*covering tuition and quarterly stipend*
3. WCAS External Fellowship , Northwestern University, 2019 – 2021  
*covering tuition and monthly stipend*
2. Turkish Education Foundation (Türk Eğitim Vakfı) Superior Success Scholarship 2014 – 2017  
*covering monthly stipend*
1. Dean's high-honor list, Middle East Technical University, 2013 – 2017

## Publications

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- C. L. Rodriguez, N. C. Weatherford, S. C. Coughlin, P. A. Seoane, K. Breivik, S. Chatterjee, G. Fragione, F. Kiroğlu, K. Kremer, N. Z. Rui, C. S. Ye, M. Zevin, and F. A. Rasio, *Modeling Dense Star Clusters in the Milky Way and Beyond with the Cluster Monte Carlo Code*, (2021) [[arXiv:2106.02643](#)].
- F. Kiroğlu, N. C. Weatherford, K. Kremer, C. S. Ye, G. Fragione, and F. A. Rasio, *Gravitational Microlensing Rates in Milky Way Globular Clusters*, (2021) [[arXiv:2111.14866](#)].

## School organizations

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Leiden summer school, Leiden University, Netherlands  
[Modern physics at all scales](#), 2016

GraSPA summer school, Annecy-le-Vieux, LAPTh, France  
[Particle and astroparticle physics](#), 2016

## Computer skills

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Primarily work on Linux and macOS; proficient in Unix, C, Python, and Mathematica.