

Ceren Demirci

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Education

University of Toronto, Department of Physics **Sep 2024 – Present**
Ph.D. in Physics

University of Toronto, Department of Physics **Sep 2023 – Aug 2024**
M.Sc. in Physics

University of Toronto, University College **Sep 2018 – Jun 2022**
H.B.Sc. with Distinction

- Physics Major, Astronomy & Astrophysics Major, Chemistry Minor
- Dean's List Scholar – Winter 2019

Research Experience

Research Assistant | University of Toronto **Oct 2023 – Present**
Supervisors: Prof. Dylan Jones, Prof. Debra Wunch | Department of Physics

- Conducting research on modeling biogenic carbon dioxide fluxes in Toronto
- Modeled and analyzed the global carbon dioxide budget with GEOS-Chem
- Investigated how different regions contribute to the global carbon cycle, and how they interact with each other

Research Student | University of Toronto **Sep 2021 – May 2022**
Supervisor: Prof. Lea Hirsch | Department of Astronomy & Astrophysics

- Conducted literature review research under the coursework of “Introduction to Astrophysical Research” on the correlation between size and spacing of exoplanets in multi-planet stellar systems

Research Student | University of Toronto **Jul 2021 – Aug 2021**
Supervisor: Prof. Kimberly Strong | Department of Physics

- Conducted research on quantifying urban-scale carbon dioxide emissions in Toronto under the coursework of “Undergraduate Research Project”

Teaching Experience

Teaching Assistant | Practical Physics I (PHY224) **Sep 2024 – Present**
Department of Physics, University of Toronto

- Conducting laboratory sessions for several experiments
- Grading lab notebooks lab reports, and providing constructive feedback to students

Tutor **Nov 2023 – Present**
High Park Academy | *Toronto, ON*

- Providing tutoring for Grade 10-12 students in Physics, Chemistry, and Math
- Developing personalized study plans and instructional materials to individual learning styles and needs

Teaching Assistant | Introduction to Physics II (PHY132) **Aug 2024 – Aug 2024**
Department of Physics, University of Toronto

- Covered two laboratory sessions for another TA

Teaching Assistant | Introduction to Physics I (PHY131) **Sep 2023 – May 2024**
Department of Physics, University of Toronto

- Conducted laboratory sessions
- Graded assignments and provided constructive feedback to students
- Utilized technology and educational softwares to enhance the learning experience
- Invigilated term tests for over 100 students

Skills & Languages

Technical Skills | Python (NumPy, matplotlib, SciPy, cartopy, pandas, astropy, contextily) · Linux

Languages | Turkish (Native) · English (Fluent)

Community Involvement

Volunteer Tutor **Jan 2021 – Jun 2021**
Gönüllü Hizmetler Derneği | *Istanbul, Turkey*

- Planned and lead online tutorials for 4th grade students in science
- Worked with 6-10 students and three volunteers each weekend on exam preparation and topic revision

Camp Organizer, Volunteer **Jun 2015 – July 2021**
Düşlerim Gerçekleşiyor | *Izmir, Turkey*

- Planned one-week summer camps with variety of activities for students
- Worked with 15-30 students and 10-15 volunteers from 9 a.m. to 10 p.m. each day of the camp
- Attended and planned daily meetings to organize daily workshops about music, arts, dance, and sports

Coordinator, Volunteer **Jul 2015 – Feb 2017**
Robert College Community Involvement Program | *Various Locations, Turkey*

- Planned and volunteered in one-week summer/winter break camps with variety of activities for students
- Worked with 30-40 elementary school students and 10-15 volunteers for 6 hours each day of the camp