

# Kadir ÇEVEN

## PERSONAL INFO

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GITHUB: [github.com/cevenkadir](https://github.com/cevenkadir)

## EXPERIENCE

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Current Nov. 2023	<b>Research assistant @ GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN, Germany</b> <i>Heidrich-Meisner group &amp; DFG Research Unit FOR 5522</i> <ul style="list-style-type: none"><li>• Nonequilibrium physics in closed quantum systems focusing on ergodic systems, quantum chaos, eigenstate thermalization and transport</li></ul> <b>Advisor:</b> Fabian HEIDRICH-MEISNER
JUN. 2023 SEP. 2021	<b>Research assistant @ BILKENT UNIVERSITY, Turkey</b> <i>Oktel group</i> <ul style="list-style-type: none"><li>• Neural-network quantum states for a two-leg Bose-Hubbard ladder under magnetic flux, <i>Phys. Rev. A</i> <b>106</b>, 063320 (2022)</li></ul> <b>Advisors:</b> M. Özgür OKTEL, Ahmet KELEŞ
JUL. 2022 JUN. 2022	<b>Intern @ TECHNISCHE UNIVERSITÄT MÜNCHEN, Germany</b> <i>Mendl group</i> <ul style="list-style-type: none"><li>• A Python library that trains Fermionic neural networks to find the ground state wave functions of an atom or a molecule using neural-network quantum states.</li></ul> <b>Advisors:</b> Christian B. MENDEL, Irene López GUTIÉRREZ
JUN. 2021 JAN. 2020	<b>Undergraduate researcher @ BILKENT UNIVERSITY, Turkey</b> <i>Oktel group</i> <ul style="list-style-type: none"><li>• Numerical simulation of geometric squeezing in rotating Bose-Einstein condensates (<i>as my first senior project</i>)</li><li>• Constructing the phase diagram of the 1D Bose-Hubbard model with an artificial neural network (<i>as my second senior project</i>)</li></ul> <b>Advisors:</b> M. Özgür OKTEL, Ahmet KELEŞ
AUG. 2019 JUL. 2019	<b>Intern @ JOHANNES GUTENBERG-UNIVERSITÄT MAINZ, Germany</b> <i>Project 8</i> <ul style="list-style-type: none"><li>• Integration of a new pressure gauge into the Mainz experiment of Project 8.</li></ul> <b>Advisors:</b> Sebastian BÖSER, Alec LINDMAN

## EDUCATION

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- 2023- | **Ph.D. in Physics @ GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN**, Germany  
Advisor: Fabian HEIDRICH-MEISNER
- 2021-2023 | **M.Sc. in Physics @ BILKENT UNIVERSITY**, Turkey  
Cumulative GPA: 3.91/4.00  
[Neural-network quantum states for a two-leg Bose-Hubbard ladder under a synthetic magnetic field](#)  
Advisors: M. Özgür OKTEL, Ahmet KELEŞ
- 2016-2021 | **B.Sc. in Physics @ BILKENT UNIVERSITY**, Turkey  
Cumulative GPA: 3.58/4.00 & Rank: 3/26 & Magna Cum Laude  
Note: I attended the English Language Preparatory Program in the period 2016-2017.

## PUBLICATIONS

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- K. Çeven**, M. Ö. Oktel, and A. Keleş, *Neural-network quantum states for a two-leg Bose-Hubbard ladder under magnetic flux*, *Phys. Rev. A* **106**, 063320 (2022).

## TEACHING

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- JUN. 2023 | **Lab assistant @ BILKENT UNIVERSITY**, Turkey  
FEB. 2023 | *Modern Physics (PHYS 212) course*
- JAN. 2023 | **Lab assistant @ BILKENT UNIVERSITY**, Turkey  
SEPT. 2021 | *General Physics I and II (PHYS 101-102) courses*

## ORGANIZATIONS & CONFERENCES

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- MAR. 17-22, 2024 | **Talk @ DPG Spring Meeting of the Condensed Matter Section**, TECHNISCHE UNIVERSITÄT BERLIN, Berlin, Germany
- JAN. 17-18, 2024 | **Poster presentation @ Collaboration Meeting on Transport of FOR 5522**, MAX PLANCK INSTITUTE OF QUANTUM OPTICS, München, Germany
- JAN. 9-10, 2024 | **Poster presentation @ Collaboration Meeting on Kinetically Constrained Models of FOR 5522**, EBERHARD-KARLS-UNIVERSITÄT TÜBINGEN, Tübingen, Germany
- DEC. 6-8, 2023 | **Poster presentation @ Kick-Off Meeting of FOR 5522**, MAX PLANCK INSTITUTE FOR THE PHYSICS OF COMPLEX SYSTEMS, Dresden, Germany
- FEB. 2-3, 2023 | **Poster presentation @ KOBIT|7>**, ESKİŞEHİR TECHNICAL UNIVERSITY, Eskişehir, Turkey
- DEC. 16, 2022 | **Poster presentation @ 27th Condensed Matter Physics Ankara**, MIDDLE EAST TECHNICAL UNIVERSITY, Ankara, Turkey

## AWARDS & SCHOLARSHIPS

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- 2022-2023 | **2210-A National MSc/MA scholarship**, THE SCIENTIFIC AND TECHNOLOGICAL RESEARCH COUNCIL OF TURKEY (TÜBİTAK), Turkey
- 2016-2023 | **Full scholarship**, BILKENT UNIVERSITY, Turkey
- 2022 | **Erasmus+ Student Mobility Program's grant**, EUROPEAN COMMISSION
- 2020-2021 | **BTF Bilkent scholarship**, BRIDGE TO TÜRKİYE FUND, USA
- 2018-2021 | **Honour and high honour degrees**, BILKENT UNIVERSITY, Turkey
- 2019 | **PRISMA+ Internship Program's grant**, JOHANNES GUTENBERG-UNIVERSITÄT MAINZ, Germany
- 2018-2019 | **Best project awards** in *Modern Physics* and *Waves, Optics and Thermodynamics* courses, BILKENT UNIVERSITY, Turkey

## LANGUAGES

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TRKISH: Native  
ENGLISH: Advanced

## COMPUTER SKILLS

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Basic Knowledge: C#, TensorFlow  
Intermediate Knowledge: HTML, CSS, JavaScript, JAX  
Advanced Knowledge: Julia, Python, MATLAB

## HOBBIES & INTERESTS

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History, Sci-Fi, video games, 3D printing, crafting.

- 2018-2019 | **Graphic design coordinator**, Bilkent Photography Club, BILKENT UNIVERSITY, Turkey
- 2014-2016 | **Patroller & Interface editor**, Turkish Wikipedia, WIKIPEDIA