| rem Topal | Physics Engineer | Postdoctoral Researcher

Padova, Italy ☐ github.com/lffrrnt

% Iffrrnt.github.io



EDUCATION

2023	PhD in Computationa	Science and En	gineering	Kadir Has I	University	Istanbul Turkey
2023	i iib iii compatationa	i ociciice ana En	giiicciiiig,	Nauli Has	OTHIVE STLY,	istalibut, ruincy.

2019 PhD in Physics Engineering, Istanbul Technical University, Courses Transferred.

2017 MSc in Physics Engineering, Istanbul Technical University.

2014 BSc in Physics Engineering, Istanbul Technical University.

RESEARCH AND EXPERIENCE

Present June 2023	Postdoctoral Researcher, University of Padova, Padova, Italy. Department of Biomedical Sciences
May 2023 October 2019	Research Assistant, Kadir Has University, Istanbul, Turkey. PhD funded by TUBITAK
Sept 2021 July 2021	Visiting PhD Student, International Center for Theoretical Physics, Trieste, Italy. Quantitative Life Sciences Section
October 2019 November 2018	Physics Tutor, Bahcesehir, Istanbul, Turkey. Worked one-on-one with undergraduate engineering students to prepare them for the exams in Physics I and II.
October 2019 April 2018	Data Scientist, MILETOS INC., Istanbul, Turkey.
Sept 2013 August 2013	Engineering Intern, Eczacibasi-Monrol Nuclear Products, Kocaeli, Turkey.
August 2013 July 2013	Intern, ISTANBUL UNIVERSITY, Cerrahpasa Faculty of Medicine, Istanbul, Turkey. Received Nuclear Medicine Physics Certificate.

Publications

IREM TOPAL - CV 1

²⁰²³ Topal, I., Eroglu, D., "Reconstructing Network Dynamics of Coupled Discrete Chaotic Units from Data", Physical Review Letters 130, 117401, (2023).

Topal, I., Servantie, J., "Molecular Dynamics Study of the Thermal Conductivity in Nanofluids", Chemical Physics **516**, 147-151, (2019).

TALKS AND POSTERS

- 2022 Reconstructing network dynamics of weakly coupled chaotic units from data (Talk), Inverse Network Dynamics, Max Planck Institute for the Physics of Complex Systems, Dresden, Germany.
- 2022 Caliban and the Witch: Professions Lost by Women (Podcast), Fiskos Masası, Kadir Has University, Istanbul.
- 2021 Introduction to Network Sciences (Online Lecture), 19th Physics Days, Istanbul.
- 2021 Network Reconstruction from Data (Poster), The EPS conference on Statistical Physics of Complex Systems, ICTP, Trieste.
- 2021 Reconstructing Network Dynamics of Weakly Coupled Chaotic Units (Online), SIAM Conference on Applications of Dynamical Systems.
- 2021 Synchronization of Chaotic Systems (Online Lecture), 17th Physics Days, Istanbul.
- 2020 Sensing Network Dynamics of Weakly Coupled Chaotic Units (Online), Dynamics Days Digital 2020.
- 2018 Prediction of DNA Binding Sites for a Transcription Factor (Poster), Machine Learning Summer School at Bosphorus (BYOYO), Istanbul.
- 2018 Molecular Dynamics Study of the Thermal Conductivity in Nanofluids (Talk), The annual Statistical Physics Days, İzmir.

SKILLS

Programming Mathematica, Maple, Julia

Software VMD, Inkscape, LaTex, Grace, Gephi

Development tools git

Operating systems Ubuntu, Mac OS X, Windows

</> Programming Languages



- > Turkish (Native)
- > English



OUTREACH AND VOLUNTEERING

2013 İstanbul Technical University, Students' Representative Council, Undergraduate Student Representative of Physics Engineering

66 References

Available upon request.

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