

# LEVENT TOKSOZ

Adnan Menderes Bul Barbaros Mah 2107 sok Toksoz apt 7/10, Yenisehir, Mersin, Turkey

+90 531 6252420, [letoksoz@umich.edu](mailto:letoksoz@umich.edu)

Personal/Projects Website: <https://letoksoz.github.io/>

## EDUCATION

**University of Michigan, Ann Arbor**

**2013–2017**

*Bachelor of Science in Physics with Honors*

- Double-major in Pure Math
- CGPA: 3.715/4.00. Physics GPA: 3.763/4.00. Pure Math GPA: 3.643/4.00.

*Department of Physics Undergraduate Honors Program*

- **Honors Thesis:** “21 cm Hydrogen Line and Its Power Spectrum” (2015–2017)
- **Synopsis:** Cosmological/Mathematical/Computational analysis of sensitivity of the parameters inherent to the 21cm power spectrum using Python. Techniques employed: Computational Physics, Mathematical Modeling, Literature Review. **Advisor:** Professor Dragan Huterer

**Selected Physics Coursework:** Mechanics, Electricity & Magnetism, Stat & Thermal Physics, Computational Physics, Astrophysics, Particles & Cosmology, Quantum Mechanics, Advanced Lab  
**Selected Math Coursework:** Linear & Modern Algebra, Differential Equations & Geometry, Probability, Boundary Values, Calculus, Coding

**Academic Computer Science:** Programming Concepts, Object-oriented Programming, Algorithms, Simulations via Applied Databases & Massive Datasets. **Languages:** Julia, Java, C, C++, Python

**Tarsus American College**

**2009–2013**

*International Baccalaureate (IB) student*

- GPA 4.73/5.00. Half Merit Scholarship

## RESEARCH EXPERIENCE

**Koç University; Istanbul, Turkey**

**August 2017—Present**

*Visiting Researcher*

*Collaborating with Associate Professor Professors Alkan Kabakcioglu (Department of Physics) & Associate Professor Deniz Yuret (Department of Computer Engineering)*

- **Project:** Investigating the functional role and the interacting partners of NeuroD2 protein with goal of generating insights into its function in neuronal differentiation
- **Role:** Apply machine learning techniques (Logistic Regression, Neural Networks and Convolutional Neural Networks) using Julia to massive datasets, incl. ChIP-Seq data and histone binding data, in order to identify and characterize binding sites of NeuroD2 on DNA and understand their nature

**Interdisciplinary Paper Project; Istanbul, Turkey**

**June 2017—Present**

*“Machine Learning and Financial Distress Prediction” (Work in Progress)*

- **Co-Authors:** Associate Professor Fevzi Serkan Ozdemir (Department of Accounting, Izmir Democracy University) & Assistant Professor Tuba Toksoz (Department of Accounting, Koc University) & Caner Berkay Antmen
- **Project:** Developing a model to investigate the effect of financial ratios on the likelihood of financial distress of the firms listed on the Borsa Istanbul Stock exchange from 2005 to 2016.
- **Role:** Employ machine-learning algorithms (Logistic Regression, Beehive Algorithm, Neural Networks, Random Forests) in order to identify factors correlating with financial distress via historical dataset using Python Language.

# LEVENT TOKSOZ

Adnan Menderes Bul Barbaros Mah 2107 sok Toksoz apt 7/10, Yenisehir, Mersin, Turkey  
+90 531 6252420, [letoksoz@umich.edu](mailto:letoksoz@umich.edu)

Personal/Projects Website: <https://letoksoz.github.io/>

**University of Michigan, Ann Arbor**

**2015—2017**

*Research Assistant to Professor Dragan Huterer (Department of Physics)*

- Utilized theoretical & computational cosmology to generate simulations of noise inherent to astrophysical power spectrums. Participated in weekly cosmology paper workshops

## **WORK EXPERIENCE**

**Internship at Konfides Technologies**

**June 2017— December 2017**

- Contributed to embedded system software development using C

### **Chess:**

Competitive player since 2001. Rating: 1872. University of Michigan Chess Club.  
2<sup>nd</sup> place in MEB(Turkish Educational Administration) Turkish Championships, 2008

### **Languages:**

Turkish: native. English: fluent