COMPUTER SCIENCE DEPARTMENT

LEVENT TOKSOZ

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

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.

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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—Present**

- Contribute to embedded system software development using C

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

Languages: Turkish: native. English: fluent