

## EDUCATION

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- **Ankara Science High School** Ankara, Turkey  
*GPA: 94.96/100* *Sept. 2009 – June 2013*
- **Boğaziçi University** Istanbul, Turkey  
*BSc, Electrical and Electronics Engineering; GPA: 3.85/4 (5th among 102)* *Sept. 2014 – June 2019*  
Double Major, **Mathematics**
- **New York University Tandon School of Engineering** NY, USA  
*MSc, Electrical and Computer Engineering; GPA: 3.97/4* *Sept. 2019 – May 2021*
- **New York University Tandon School of Engineering** NY, USA  
*PhD, Electrical and Computer Engineering* *Sept. 2019 – present*

## EXPERIENCE

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- **Nanomagnetics Instruments** Ankara, Turkey  
*Engineering Intern* *June 2016 - July 2016*
  - **ADCs:** “Design of external test circuits for the AK5397”
- **ASELSAN (Military Electronic Industries)** Ankara, Turkey  
*Engineering Intern* *June 2017 - July 2017*
  - **Avionics Hardware Design:** “VHDL”
- **Krontech** Istanbul, Turkey  
*Engineering Intern* *June 2018 - July 2018*
  - **Network Protocols:** “Authentication, Authorization and Accounting (AAA)”
- **New York University Tandon School of Engineering, NYU Wireless** NY, USA  
*Graduate Research Assistant* *Sept. 2019 - present*
  - **Member of CommIT Group at NYU:** Working on “Information-Theoretic Data Privacy” with [Dr. Elza Erkip](#)

## PUBLICATIONS

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- S. Bakirtas**, E. Erkip, “Database Matching Under Column Deletions”, *Proc. IEEE Int. Symp. on Information Theory (ISIT)*, Melbourne, Australia, July 2021.
- S. Bakirtas**, E. Erkip, “Database Matching Under Column Repetitions”, *under review*.
- S. Bakirtas**, E. Erkip, “Seeded Database Matching Under Noisy Column Repetitions”, *under review*.

## SKILLS

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- **Computer Skills:** C/C++, Arduino, MATLAB (experience with 5G Toolbox), Python (experience with PyTorch), Julia, SPICE, VHDL/Xilinx ISE,  $\text{\LaTeX}$ , Microsoft Office and other common applications for Microsoft Windows
- **Languages:** Turkish (Native), English (Advanced), Spanish (Intermediate)
- **Soft Skills:** Leadership, Presentation, Team Working

## AWARDS AND SCHOLARSHIPS

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- TED Ankara College Math Olympics, Silver Medal, 2011.
- LYS (Turkish National University Exam), 175th out of 851,135 participants, 2013.
- LYS (Turkish National University Exam), 58th out of 946,252 participants, 2014.
- The Ministry of Youth and Sports – Merit-Based Scholarship, Jan. 2015 – June 2018
- TÜBİTAK (Scientific and Technological Research Council of Turkey), 2205 – Undergraduate Scholarship Program, Nov. 2018 – July 2019
- NYU Tandon School of Engineering, Ernst Weber Fellowship, Sept. 2019–2020

## ACTIVITIES AND SOCIETIES

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- **Ankara Science High School Mathematics Olympiad Team** Ankara, Turkey  
*Member* *Nov. 2009 – June 2011*
- **Boğaziçi University Electro-Technology Club** Istanbul, Turkey  
*Member* *Sept. 2014 – June 2016*
- **Boğaziçi University Dpt. of Fine Arts Sculpture and Ceramics Atelier** Istanbul, Turkey  
*Member* *Sept. 2017 – August 2019*
- **Swing Istanbul Lindy Hop Dance Studio** Istanbul, Turkey  
*Member* *Sept. 2018 – August 2019*
- **NYU Swing Dance Society** NY, USA  
*Member* *Sept. 2019 — present*