Batu El

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Palo Alto, CA - 94305, USA

EDUCATION

- **Stanford University** *2024-present*
Ph.D. in Computational and Mathematical Engineering | Knight-Hennessy Scholar Stanford, CA

- **University of Cambridge** *2023-2024*
M.Phil. in Advanced Computer Science | Distinction (85%, ranked 5th) | Darwin College Cambridge, UK

- **Tulane University** *2018-2022*
B.S. & B.A. in Mathematics; Computer Science; Economics | Valedictorian (GPA: 4.00/4.00) | Full-scholarship New Orleans, LA

- **London School of Economics and Political Science** *2020-2021*
General Course (one-year-long exchange program) | Economics London, UK

- **Robert College of Istanbul** *2013-2018*
Admits the top 200 (0.02%) in Turkey's nationwide high school placement exam among 1,200,000 candidates. Istanbul, Turkiye

RELEVANT PROJECTS

- **Sociotechnical Alignment in Automated Optimization Modeling via Textual Bisection** *Dec 2024*
Udell Lab at Stanford University | Advisor: Madeleine Udell [⬡]

- **Understanding and Improving Representation Learning in the Presence of Shortcuts** *Jun 2024*
MPhil Thesis at the University of Cambridge | Advisors: Andreas Vlachos and Michalis Korakakis [⬡]

- **Different Inductive Biases Can Lead to Similar Performance via Distinct Algorithms** *Mar 2024*
Project for Geometric Deep Learning at the University of Cambridge | Advisor: Chaitanya Joshi [⬡]

- **Understanding Toy Backdoors via Mechanistic Interpretability** *Mar 2024*
Part of a Project for Theory of Deep Learning at the University of Cambridge [⬡]

- **Bayesian Optimization for Guided Hypothesis Sampling in Minimum Bayes Risk Decoding** *Jan 2024*
Project for Machine Learning for Language Processing at the University of Cambridge | Advisor: Julius Cheng [⬡]

- **Comparative Analysis of Stanford U-PCFG and Berkeley Neural Parsers** *Jan 2024*
Project for Introduction to Natural Language Syntax and Parsing at the University of Cambridge [⬡]

- **Abstractive Summarization of CNN/DailyMail Articles with Encoder-Decoder Transformer** *Jan 2024*
Project for Overview of Natural Language Processing at the University of Cambridge [⬡]

- **Reserve Management Survey Report 2023: Insights into Public Asset Management** *Oct 2023*
Conducted the data analysis for the 4th Biennial Reserve Management Survey Report at the World Bank | Manager: Eric Bouyé [🌐]

- **Parameterizing Chains in Generalized Fixed-Point-Free Involutions** *May 2022*
Undergraduate Mathematics Thesis at Tulane University | Advisor: Michael Joyce [⬡]

EXPERIENCE

- **The World Bank [🌐]** *Aug 2022 - Sep 2023*
Junior Analyst - Reserve Advisory & Management Partnership Washington DC, USA
  ∘ Managed the database and conducted data analysis for a survey of 150 central banks; delivered presentations to central bankers; worked on yield curve modeling and environmental, social, and governance (ESG) metrics; developed fixed income portfolio optimization software.

- **Chember.co [🌐]** *Mar 2020 - Jun 2023*
Co-Founder & Data Lead (30,000 users) Istanbul, Turkiye
  ∘ Built a social platform where basketball enthusiasts browse courts, find games, and stay connected

- **Tulane University Academic Learning & Tutoring Center [🌐]** *Feb 2019 - May 2022*
Supplemental Instructor New Orleans LA, USA

ACTIVITIES AND INTERESTS

- **The World Bank and IMF Turkish Staff Association** *Aug 2022 - Sep 2023*
Vice President Washington DC, USA
  ∘ Organised a community campaign that raised $1.7 million for 2023 Turkiye-Syria earthquake relief efforts

- **Tulane Journal of Policy and Political Economy [🌐]** *Feb 2020 - May 2022*
Editor New Orleans LA, USA

- **Defne & Muhtar Kent Educational Foundation [🌐]** *Aug 2018 - Present*
Scholar & Mentor Istanbul, Turkiye

HONORS AND AWARDS

- **Knight-Hennessy Scholarship, Stanford University** *2024 Cohort*
  Member of a multidisciplinary and multicultural scholars community [🌐]

- **William Wallace Peery Medal for Academic Excellence, Tulane University** *2022*
  Tulane University's top academic honor - valedictorian [🌐]

- **J. Ernest Tanner Award for Excellence in Economics, Tulane University** *2022*
  Top student among the graduating economics majors at Tulane University [🌐]

- **Glendy Burke Medal in Mathematics, Tulane University** *2022*
  Top student among the graduating mathematics majors at Tulane University

- **Award for Academic Excellence in Computer Science, Tulane University** *2022*
  Top student among the graduating computer science majors at Tulane University

- **The Award for Outstanding Capstone Project in Computer Science, Tulane University** *2022*
  Awarded for authoring a capstone project that is well-developed, technically sophisticated, relevant, and applicable

- **The Senior Honors Scholar in Computer Science, Tulane University** *2022*
  Awarded to the honors thesis writer the department considers their very best based on contributions to the field of study

- **Phi Beta Kappa, Academic Honor Society** *2022*
  In recognition of high attainments in liberal scholarship

- **Omicron Delta Kappa, National Leadership Honor Society** *2021*
  In recognition of conspicuous attainments and service in collegiate activities

- **Gordon Summer Fellowship, Tulane University** *2021*
  Largest grant given by Newcomb-Tulane College, to two outstanding students per spring semester

- **Stacy Mandel Palagye and Keith Palagye Program for Middle East Peace** *2020*
  Five-week fully funded program provides an immersion in the Arab Israeli conflict through hands-on experience in Jerusalem [🌐]

- **Honors Summer Research Grant, Tulane University** *2020*
  The grant covers living expenses for six weeks during the summer to provide an opportunity to work on a scholarly project

- **Tulane University Global Scholarship** *2018-2022*
  Full-tuition scholarship throughout 4-year undergraduate career

- **Defne and Muhtar Kent Educational Foundation Scholarship** *2018-2022*
  Scholarship partially covers housing expenses for four years [🌐]