Adrian Erlikhman

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EDUCATION

Los Angeles Center for Enriched Studies (LACES) Class of 2027

- GPA 5.2 weighted / 4.0 unweighted · Class Rank 1 of 215 · SAT 1520 (Math 770 / EBRW 750).
- 11 AP courses completed, with 6 more senior year plus dual-enrollment advanced mathematics and programming.

VENTURES & FOUNDING EXPERIENCE

AI/ML Literacy Initiative (AIML-LI) — *Co-Founder & Lead* 2023 – Present

- Co-founded and lead a student-built AI/ML education initiative; architected a 12-week, project-based curriculum spanning supervised and unsupervised learning, neural networks, NLP, reinforcement learning, and AI ethics.
- Authored 16+ production-ready instructional units — Google Colab notebooks, modular teaching kits, instructor guides, student packets, and assessments — engineered for turnkey classroom deployment.
- Partnered directly with LAUSD's Director of Educational Technology and Director of Secondary Learning to pilot the curriculum district-wide and pursue A–G elective accreditation, with a roadmap to reach 250+ schools.
- Mentored by Amir Zohrenejad (Data Herald, YC W21) and Philo Juang (Google DeepMind); selected to present at the LAUSD Innovation Expo alongside Google, Microsoft, and Canva, and invited to the $10,000 LAUSD Student Innovation Challenge.

SafeJew — *Co-Founder* · JFEDLA Teen Innovation Grant Recipient 2024 – 2025

- Built a community-safety analytics platform integrating incident datasets from the ADL, FBI, LAPD, and JFEDLA's Community Security Initiative; developed an ML incident-prediction model and an interactive analytics dashboard mapping threats and visualizing trends in real time.
- Deployed across JFEDLA's Greater Los Angeles network and recognized by Federation leadership; rebuilt the platform for a pitch to Hillel International's Campus Climate Initiative, adding a national campus view and Title VI resources.

STARTUP, VENTURE & PROFESSIONAL EXPERIENCE

Fjor Venture Capital — *Investment Intern* 2024 – Present

- Conducted institutional-grade due diligence on 20+ early-stage AI startups across enterprise software, fintech, and deep-tech sectors.
- Authored 10+ full-length investment memoranda synthesizing market sizing, competitive positioning, technical architecture, and founder evaluation for partner-level decision-making.
- Led screening and competitive-landscape analysis of the Y Combinator Summer 2025 batch, sourcing and ranking high-potential companies through structured outbound founder outreach.
- Worked directly with Managing Director Tatiana Janko to evaluate technical defensibility and model growth trajectories; drafted monthly LP updates and supported a website restructure to sharpen fund positioning.

Alliance for SoCal Innovation — *Venture Outreach & Pipeline Intern* 2024 – 2025

- Built and maintained a structured database of 250+ VC firms, angel syndicates, accelerators, and strategic partners active in Southern California — now core infrastructure for the Alliance's venture pipeline.
- Conducted deep market mapping of the SoCal life-sciences ecosystem to support sector-specific fund expansion; facilitated founder–investor–mentor introductions to accelerate capital access.
- Led a backend redesign of pipeline infrastructure alongside the Chief Innovation Officer, improving automation, scalability, and internal data flow; developed standardized pitch-deck templates, fundraising guides, and accelerator-readiness toolkits.

Kiddom — *Machine Learning Intern* 2026

- Joined the data-science function at a K-12 edtech curriculum platform to apply machine learning to educational content and product data.
- Maintained an ongoing mentorship relationship with the company's Director of Data Science, working through applied ML methods and production data workflows.

Mandala Space Ventures — *Research Intern* 2025 – 2026

- Contributed to an SBIR Phase I study on sustainable data centers in low Earth orbit, conducting market and technology research on emerging space-infrastructure systems.
- Worked with ex-NASA JPL fellow Leon Alkali at the Mandala Space Venture Lab at Caltech.

RESEARCH

Comparative LLM Stylometry (CompLLM) — *First Author* · Advisor: Philo Juang, Google DeepMind 2026

- Leading first-author NLP research explaining why frontier language models fail to recognize their own writing — and why their misattributions cluster systematically on GPT-4o and Claude (the "prestige sink").
- Engineered a data-collection pipeline producing 200 responses across five frontier models (GPT-4o, Gemini, Claude, Grok, DeepSeek) from a 40-prompt bank stratified by readability and difficulty.
- Extracted 16 interpretable stylometric features (lexical, syntactic, readability, pragmatic, structural, punctuation) and trained a depth-limited decision-tree classifier with SHAP attribution to surface plain-English rules for what makes text "look like" a given model.
- Validated with chi-square, Cohen's kappa, permutation testing, and difficulty-stratified ANOVA; designed a debiasing-prompt

experiment (Wilcoxon signed-rank) to probe causal intervention. Targeting ACL 2026 (Student Research Workshop) and EMNLP 2026 Findings.

Applied ML — Legatum Prosperity Index · *Stanford Researcher Abdulla Kerimov (Lumiere)* 2022 – 2023

- Built and trained ML models on the Legatum Prosperity Index to forecast national prosperity pillars for Ukraine and Israel; executed the full pipeline — exploratory data analysis, feature engineering, train/test design, and evaluation in Python.
- Co-authored a research paper currently in submission.

Advanced Mathematics Research · *PhD Candidate Kirill Kovalenko* 2022 – Present

- Rigorous study of induction, number theory, combinatorics, and game theory, applied to algorithmic problem-solving and computational mathematics.

SELECTED TECHNICAL PROJECTS

- **Regime-Aware Portfolio Optimizer** — Gaussian HMM regime detection combined with reinforcement-learning asset allocation and volatility-regime frameworks for dynamic, regime-adaptive portfolio management (validated on synthetic data).
- **LSTM Equity Forecaster** — TensorFlow LSTM time-series model predicting short-term NYSE price movements from engineered rolling-window datasets; benchmarked against ARIMA and linear-regression baselines.
- **FinBERT Market-Sentiment Analyzer** — FinBERT NLP pipeline classifying sentiment across financial news and social media, mapping aggregated signals to market events via time-series visualization.
- **Fraud-Detection System** — Supervised Random Forest / Gradient Boosting pipeline for rare-event financial fraud detection with targeted feature engineering and precision-recall optimization.
- **Citadel Terminal (Correlation One)** — Competitor; built and iterated an algorithmic tower-defense strategy ("dunerscore") with replay-based post-mortem analysis across multiple versions.

LEADERSHIP & ATHLETICS

- **Jewish Student Union — President** (2023–Present): lead a 50+ member club with weekly programming; coordinated a schoolwide Holocaust Remembrance assembly featuring a survivor in partnership with StandWithUs.
- **STEMsters — Founder & President** (2022–Present): organized STEM volunteering for 30+ students across 4 elementary schools; designed hands-on coding, robotics, and engineering lessons for underserved youth.
- **Competitive Épée Fencing** — USA Fencing A-rated; Team USA; Region 4 Champion; Top-8 Cadet Pan-American Championships (Bogotá); 3× All-American First Team; 3× All-Academic First Team. In active recruitment with MIT.

TECHNICAL SKILLS

Languages & Tools: Python, scikit-learn, TensorFlow / Keras, pandas, NumPy, SHAP, Git, Google Colab, LaTeX. **ML & Statistics:** supervised & unsupervised learning, NLP, time-series modeling, hidden Markov models, decision trees, hypothesis testing, cross-validation, feature engineering.