Pablo Aldape

pablo.aldape@gmail.com +1 (508) 314-1756 LinkedIn, GitHub: /plra

School **Stanford University**

M.S. Statistics, September 2016 - December 2018. GPA: 3.94

B.S. Mathematics, September 2014 - June 2018. Minor, German Studies. GPA: 3.90

Selected coursework: Honors real analysis, honors abstract algebra, Ph.D.-level probability theory, graph theory, number theory, statistical learning, algorithm design & analysis, automata & complexity theory, data mining, stochastics, honors quantum/thermal/E&M physics, computability, nonclassical logic.

Work **Google** (**YouTube**) Mountain View / San Bruno, CA

Data Scientist, August 2019 - Present.

Reduced calibration error of YouTube comments classifiers by a factor of 10. Designed system illuminating thousands of monetized creators cheating a "family-friendly" classifier, saving $10MM/yr. Developed metrics & inference frameworks for comments quality & satisfaction. Architected strategy for identifying & managing unreliable human raters in the absence of ground truth. Built models to help creators understand their performance and competition in YouTube Analytics / Creator Studio.

Cambrian Technologies (f.k.a. **Vest**) San Francisco, CA

Cryptography Engineer/Scientist, June 2018 - August 2019.

Second hire at $70MM Series A startup, backed by Andreessen Horowitz, Polychain et al., focusing first on investment products for proof-of-stake blockchains and later applied research in blockchain security & scalability. Built quantitative models for a staking marketplace on Tezos; collaborated with members of Stanford Applied Cryptography Group to implement a novel cryptosystem in Rust.

BMW Research Munich, Germany

Data Scientist Intern, June - September 2017.

Conducted statistical investigations in support of BMW's DriveNow car-sharing service and ParkNow parking assistance engine. Projects included development of a statistical testing framework for evaluating third-party traffic data, exploratory work in crowdsourced prediction of solar power production capacity from car-mounted light sensor data, and fleet analytics/visualization.

Stanford Mechanics & Computation Group Stanford, CA

Research Assistant, June - September 2015.

Worked in Prof. Eric Darve's research group on the inverse fast multipole method, a linear-time direct solver for a broad class of dense linear systems. Translated mathematical theory behind solver into a novel real-time graph-based simulation of solver's operation, thereby generating insights for improving methodology and performance.

Skills *Language:* English (native), German (ACTFL certified Advanced / ∼C1), Finnish (beginning)
Computation: R, Python, C[++], Haskell, Rust, SQL, Spark, AWS, UNIX, LaTeX
Teaching: Teaching assistant for introductory computer science at Howard University.
Tutored undergraduate mathematical statistics, linear algebra and multivariable calculus.
Led after-school math program for 1st- and 2nd-graders in East Palo Alto, CA.

Awards **Delta Phi Alpha.** (national German honor society)
Stanford Division of Literatures, Cultures and Languages, Stanford, CA, 2018.
Outstanding performance in mathematics competition. (state level)
Elizabeth Haskins Mathematics Contest, Fitchburg, MA, 2014 + 2013 + 2012.
Superior paper in mathematical modeling. (national level)
M3 Challenge, Bolton, MA. Awarded to 53 of 1152 papers. 2014.