Anna L. Trella

email: annatrella@g.harvard.edu
website: annatrella.github.io

EDUCATION

Harvard University   GPA 4.0
Ph.D in Computer Science, Artificial Intelligence   Expected 2025

University of California, Berkeley   GPA 3.7
B.A. in Applied Mathematics, Minor in History
Dean's Honors
2019 EECS Department Outstanding Graduate Student Instructor

TECHNICAL EXPERIENCE

Technical Lead - Software Development Engineer II, Amazon.com   2018 - 2020

- **Technical Consultation:** held strong working knowledge of technical ecosystem of entire organization, performed system walk-through for external team members, and proposed process improvements
- **Leadership:** coordinated with product, business, quality assurance, and other engineering teams internationally to deliver milestones; hired, mentored, and supported engineers across the organization
- **Architecture Design:** created, reviewed, and approved of high-level designs for new and existing systems
- **Development:** executed scrum and kanban processes, developed across backend, mobile app, mobile web, and desktop platforms, and averaged 30,000 lines of code per year, 1.2 revisions per code review

RESEARCH OUTCOMES

- **Automatic Hyperparameter Selection for Kernel Methods:** Explored state of the art methods for hyperparameter selection: Marginal Likelihood Maximization, Bayesian Optimization, Bayesian Hierarchical Models with Hamiltonian Monte Carlo
- **Gaussian Process Approximation:** Compared the performance of four types of increasingly-adapted bases methods for kernel approximations on Boston housing prices dataset

SELECTED PROJECTS

- **Whole Foods Market 2-hour Delivery on Amazon.com**; developed customizable navigation components, QR code, and cart features for Amazon's official mobile shopping application (Technology Used: Java, Kotlin, Objective-C, JavaScript, HTML, CSS)
- **AmazonFresh as a Core Prime Benefit**; implemented an incremental ingress on Amazon.com's main navigation bar for Prime customers (Technology Used: Java, JavaScript, HTML, CSS)
- **Brand Specific Cart Count Endpoint on Amazon API;** designed secure cart count endpoint that accounts for proper scaling and dynamically adjusts for new brand onboarding (Technology Used: Java)

SKILLS

- **Technologies:** Amazon Web Services (AWS), Amazon API, Git, IntelliJ, Numpy, PyMC3, Xcode, React Native, Java, Python, Objective-C, JavaScript, HTML, CSS, Kotlin, Spring Framework, Lombok
- **Languages:** Fluent in Mandarin Chinese, Conversational in Spanish, Conversational in Korean

References Available Upon Request