Salim Damerdji

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RESUME SUMMARY

Proven statistician with 3+ years experience as a technical lead in data science and AB experimentation.

EDUCATION

• University of Oxford

Oxford, UK

Statistics MS

Class of 2023

Dissertation earned a distinction.

• University of California, Berkeley

Berkeley, CA

Statistics BA; Philosophy BA

Class of 2019

GPA: 3.89

Work Experience

• Synopsys

Mountain View, CA

Jan 2020 - July 2022

Research and Development Engineer II

- Data Science R&D: Led R&D projects big and small during the growth stage for DSO.ai, now an award-winning machine learning tool used by 9 of the top 10 semiconductor companies.
- Collaboration: Communicated across the organization to translate stakeholder needs into a mathematically rigorous solution. Architected support for optimization with non-linear constraints, leading DSO.ai to outperform a human expert's best try across all metrics at Samsung, yielding new revenue.
- Prototyping: Rapidly iterated on a Bayesian optimizer to win 1st place in the optimizer benchmark that year.
- Communication: Presented on technical topics to cross-functional teams, with actionable recommendations.
- Mentorship: Led a reading group wherein cutting edge research papers were analyzed with junior coworkers.
- AB Experimentation: Ran and analyzed complex multi-factor experiments to set direction for new features.
- Programming Best Practices: Completed code reviews, wrote clean Python, exceeded 90% test coverage.

Machine Learning Intern

June 2019 - Aug 2019

- Predictive Modeling: Built ML predictors of chip quality, reducing error by up to 100x over baseline models.
- Visual Analytics: Presented crisp visualizations to tell the story of critical data to decision-makers.

Engineering Intern

May 2018 - Aug 2018

• Segmentation: Clustered large datasets of DRCs 10x faster than minibatch k-means.

• Vuclip

Engineering Intern

Milpitas, CA

June 2013 - Aug 2013

• SQL Querying: Automated reporting of user logs on Vuclip, one of the 30 most-visited mobile sites in 2010.

Papers

- S. Kapur, S. Damerdji, C. Elmendorf and P. Monkkonen (2021) "What Gets Built on Sites That Cities 'Make Available' for Housing?" UCLA's Lewis Center for Regional Policy Studies.
 - Note: See our data mapping tool at lewis.ucla.edu/RHNAmaps. State press reported on our findings.
- **S. Damerdji**, C. Elmendorf and P. Monkkonen (Forthcoming) "Are sites selected for a site inventory more likely to be developed into housing, all else equal?"
 - Note: Causal ML paper that controls for confounders with partially linear logistic regression.

Projects

- Logistic DoubleML: Open-source Python package that implements the causal ML model in Liu et al.'s 2021 paper 'Double/debiased machine learning for logistic partially linear model.'
- Fair Housing: Scored 32 cities on fair housing metrics. Data analysis earned press coverage due to data storytelling.
- AB Experimentation: Designed, ran, and analyzed a multi-factor, completely randomized block experiment (n=48) with 83% power. Study found that bias against women in leadership is resilient to reading critiques of this bias.

SKILLS