Adam Macbale

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EDUCATION

MS Statistics, 2019   **Portland State University, OR**

PROJECTS

- Studied and employed quantile regression to **analyze a predator-prey dynamic generated from real population data**, culminating in an independently written report comparing models generated from linear and non-linear quantile regression

- Worked on a team of student consultants to **analyze noisy image data** of symmetry groups present in crystals with applications to the crystallography community

- Teamed up with colleagues to analyze a dataset provided by IBM to **model attrition rates** at the company**, employing survival analysis** to estimate the career lifespan of employees

FAMILIAR CONCEPTS

- Mathematical statistics, parameter estimation, asymptotic theory, probability, **linear and logistic regression, quantile regression, hypothesis testing, design & analysis of experiments, supervised and unsupervised machine learning algorithms**, survival analysis, sampling theory, Bayesian statistics

BS Mathematics, 2016   **Portland State University, OR**

- Minors in both Physics and Economics

WORK EXPERIENCE

The T.O.V.A Company   **Portland, OR**

Statistical Research Consultant   Dec 2020 – Present

- **Worked directly with the CTO and other stakeholders** to recover lost datasets and rendered them into a usable XML format via self-written R tools
- Recalibrated a set of norming tables and **used R to write import tools** to automatically update normative data with new data
- **Developed a statistical methodology** to ungroup summary data into individual constituent data

BTIG, LLC.   **New York, NY**

Intern   Sep – Oct 2019

- Shadowed the Head of Global Portfolio and ETF Trading, and worked with Managing Directors of the Quantitative Strategies Group
- Studied index arbitrage, ETF creation & redemption cycle

- Learned about algorithmic strategy concepts
- Discussed the technical framework of the firm's electronic offering

Silver Dollar Co.   **Portland, OR**

General Manager   2009 – present

- **Worked every day with team members and distributors** to resolve issues regarding staffing, inventory, events, and inevitable team disputes.
- Heavily **assisted the owner in handling all legal affairs, payroll, employees**, pricing, and management of the shop
- **Sought out and worked with POS clients to rework company's logging and reporting** to better maintain accurate records of company data
- Constantly **managing employee / customer complaints,** trouble shooting all problems of the business with **extreme attention to detail and foresight of potential future problems**

RELEVANT SKILLS

Languages

R / RMarkdown	3+ years
LaTeX	2 years
SQL	1 year
Python	1 year

Other

Project and team management	10+ years
AWS tools (Redshift, EC2, S3)	Some exposure via online learning programs