**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