**Samuel Olson**
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**Phone:** +1(763)280-0544

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Education
**Reed College, B.A. Mathematics & Economics Portland, OR**
**August 2013 - May 2017**

*Senior Thesis:* **A Big Data Analysis of Pokémon Battling**

Work Experience
**Forestry Data Science Research Fellow**
**May 2021 – Present**
*Reed College, Portland, OR*

- Develop an R Package, gregRy, to allow easy implementation of an augmented Generalized Regression estimator (GREGORY).
- Analytically develop a proof of the statistical properties of the GREGORY estimator–MSE, bias, and consistency.
- Empirically analyze the bias and MSE of the GREGORY estimator through a simulation study in the United States Interior West to determine appropriate usage of the GREGORY estimator for forestry estimation, e.g. estimating the number of trees in a county.

**Forestry Data Science Research Assistant**

**January 2020 – October 2020**

*Reed College, Portland, OR*

- Create and analyze the precision of an augmented Generalized Regression estimator (GREGORY) for estimating forest attributes in the United States Interior West.
- Communicate and discuss the use of the GREGORY estimator to United States Forestry Service researchers and forestry statisticians through presentations, group discussions, and close collaboration.
- Create research manuscript for publication detailing the formulation, use, and advantages to using the GREGORY estimator.

**Consumer Learning Analyst**

**October 2018 – January 2020**

*Fisher Investments, Camas, WA*

- Conduct and support over 100 projects utilizing surveys, interviews, focus groups, and secondary research to learn about employees, clients, and prospective clients across all company departments.
- Support company use of market research tools, such as Qualtrics, and ensure learning efforts follow market research best practice.

**Client Learning Associate**

*Fisher Investments, Camas, WA*

- Conduct and analyze over 200 phone interviews with former client to understand termination trends and communicate feedback with upper level executives in the US Private Client Group.

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**Support, distribute, and analyze three customer feedback surveys totaling over 5,000 responses annually to understand clients' experiences and improve customer service.**

Research Experience & Presentations

- **Research:** *In collaboration with Kelly McConville, Tracey Frescino, Gretchen Moisen, Chris Toney, Olek Wojcik, & Paul Nguyen*

   *Small Area Estimation: Use of a Modified Generalized Regression Estimator (Pending)* **June 2020 – October 2020**

- **Presentation:** *In collaboration with Olek Wojcik & Paul Nguyen*

   *Improving Precision of Forestry Estimation* **November 6th, 2020**

- **Research:** *In collaboration with Olek Wojcik & Paul Nguyen*

   *A Comparison of Forest Estimations: Post-Stratification & Generalized Regression Estimators* **January 2020 – May 2020**

- **Research:** *In collaboration with Jeff Parker*

   *Correlates of Regional Unemployment in Regions of East-Central Europe* **June 2016 – September 2016**

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Skills

- *Programming Language Expertise:* **R**, **SQL**, **STATA**, **VBA**, **Python**, **HTML**

- *Software Proficiency:* **RMarkdown**, **LaTeX**, **Github**, **Google Workspace**, **Microsoft Office Suite**, **Qualtrics**

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***Other Skills:* Academic, Technical, & Business Writing, Data Cleaning & Wrangling, Data Visualization**

Personal Interests

- Baking, Board Games, Collaging, Dungeons & Dragons, Reading