

# Grace Olive Lawley

<https://grace.rbind.io> • [lawley@ohsu.edu](mailto:lawley@ohsu.edu) • Portland, OR, USA

## INTERESTS

- Computational Linguistics,
- Natural Language Processing
- Speech and Language Disorders
- Discrete Mathematics
- Statistics
- Data Science

## SKILLS

- R, Python, Prolog
- Git/GitHub
- R Markdown
- Data Analysis
- Data Wrangling
- Data Visualization

## CONTACT

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## EDUCATION

### **PHD, COMPUTER SCIENCE & ENGINEERING** | OREGON HEALTH & SCIENCE UNIVERSITY (OHSU)

Expected June 2022 • Portland, OR

- Advisor: Steven Bedrick (previously Jan van Santen)

### **BA, MATHEMATICS** | LEWIS & CLARK COLLEGE

May 2017 • Portland, OR

- Advisor: Paul T Allen

## RESEARCH EXPERIENCE

### **GRADUATE RESEARCH ASSISTANT** | CENTER FOR SPOKEN LANGUAGE UNDERSTANDING, OHSU

Sept 2017 - Present

- Participating in NIH funded research on Autism Spectrum Disorder, Fragile X Syndrome, and Down Syndrome.
- NIH R01DC012033-07: Automated Measurement of Language Outcomes for Neurodevelopmental Disorders 📄

### **RESEARCH INTERN** | CENTER FOR SPOKEN LANGUAGE UNDERSTANDING, OHSU

Jan 2017 - June 2017 • June 2016 - Aug 2016

- Analyzed transcribed interviews with children with Autism and developed an automated method to detect and quantify atypical word usage using natural language processing techniques.
- Participated in Autism Spectrum Disorder research under the supervision of Jan van Santen.

## TEACHING EXPERIENCE

### **WORKSHOP TEACHING ASSISTANT** | RSTUDIO::CONF(2020) • RSTUDIO

Jan 27-28, 2020 • Applied Machine Learning Workshop

Assisted in a two-day, 180-person workshop on applied machine learning in R. Participants learned how to use the `tidymodels` packages 📄 to build, tune, visualize, and assess various predictive models. 🗣️

### **WORKSHOP TEACHING ASSISTANT** | RSTUDIO::CONF(2019) • RSTUDIO

Jan 15-16, 2019 • What They Forgot to Teach You About R Workshop

Assisted in a two-day, hands-on workshop on project-orientated workflows, version control with Git & GitHub, debugging, personal R administration, and iterating with the `purrr` package. 📄 🗣️

### **GRADUATE TEACHING ASSISTANT** | OREGON HEALTH & SCIENCE UNIVERSITY

June 2018 - Sept 2018 • Introduction to Biostatistics for the Basic Sciences (CONJ 620)

Assisted in a course on data wrangling, statistical analysis, data visualization, and communication of biomedical data using the programming language R for graduate students. 📄 🗣️

## INDUSTRY EXPERIENCE

### **WORKSHOP COORDINATOR** | RSTUDIO::CONF(2020) • RSTUDIO

Jan 27-28, 2020 • Applied Machine Learning Workshop

Responsible for course logistics of a two-day, 180-person workshop. Duties included resolving technical issues, being the point person for student questions, and acting as the intermediary between the workshop teaching staff and the rstudio::conf(2020) coordinators.

### **INTERN** | EDUCATION TEAM, RSTUDIO

June 2019 - Sept 2019

Worked with Alison Hill [📄](#) to create an updated bookdown version of Jenny Bryan's [📄](#) STAT 545, a data science course originally taught at the University of British Columbia. The course materials are now available as an online textbook created with the R bookdown package and can be used as a resource for both self-guided learners and educators. With over 40 chapters of content, STAT 545 teaches skills for data wrangling, exploration, and analysis in R, from how to read data into R to how to create an R package. [📄](#)

## TALKS & PANELS

### **"PEDANTIC SPEECH IN CHILDREN WITH AUTISM SPECTRUM DISORDER"** | DEPARTMENT TALK

May 2019 • Center for Spoken Language Understanding, OHSU • [📄](#)

### **"MATH MEETS DATA"** | INVITED SPEAKER

Apr 2019 • Lewis & Clark College • Mathematical Sciences Colloquium • [📄](#)

### **STEM GRADUATE SCHOOL EXPERIENCE PANEL** | INVITED PANELIST

Apr 2019 • Lewis & Clark College • Gender Minorities in STEM (GemSTEM) Club

### **"A SENTIMENT ANALYSIS OF CHILD LANGUAGE ACQUISITION DATA"** | INVITED SPEAKER

Aug 2018 • Portland R User Group • OHSU Data Viz Lab Talk Nights • [📄](#)

## PUBLICATIONS

MacFarlane, H., Salem, A. C., Lawley, G. O., Hill, A. P., Zuckerman, K., Fombonne, E. Epidemiological Chapter. Autism and Pervasive Developmental Disorders. (Submitted for publication)

## CERTIFICATIONS

### **RSTUDIO CERTIFIED INSTRUCTOR** | TIDYVERSE

November 2019 - Present • [📄](#)

## AWARDS & HONORS

### **PROMISING SCHOLAR AWARD** | \$1,000

May 2017 • Oregon Health & Science University

### **MILLER INTERNSHIP AWARD** | \$4,600

Summer 2016 • Lewis & Clark College

## PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

- Pi Mu Epsilon (US Honorary National Mathematics Society)
- Women in Science Portland
- R-Ladies PDX

## ADDITIONAL EXPERIENCE

### **CAMP ODAKODA BY ASD OREGON** | CABIN COUNSELOR

Aug 2018 • Sisters, OR

Worked as a cabin counselor at a five-day-long overnight summer camp for children with high functioning Autism Spectrum Disorder. [📄](#)