

TED LADERAS, PHD

Assistant Professor, Division of Bioinformatics and Computational Biology,
Department of Medical Informatics and Clinical Epidemiology, Oregon Health &
Science University

I am passionate about teaching students to think about data and utilize open science workflows. I have taught Data Science to a variety of groups, including graduate students, post-docs, staff, and clinicians. I am also an RStudio Certified Trainer in both the `tidyverse` and `Shiny`.

View this CV online with links at
laderast.github.io/cv

CONTACT

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SELECTED COURSES

Current
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2015

- **BMI569: Data Analytics'**
Biomedical Informatics, Oregon Health & Science University
📍 Portland, OR
 - Course co-director. Hybrid course co-taught with Kaiser Permanente Insight group.
 - Winner of the Sakai Torchbearer Award 2020. Multiple nominations from students.
 - Audience is both clinicians and bioinformaticans.

Current
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2020

- **BMI507: Ready for R'**
Biomedical Informatics, Oregon Health & Science University
📍 Portland, OR
 - Course Director. A gentle introduction to visualization, data transformation, and statistics using R and the tidyverse.
 - Course is open to anyone at <https://ready4r.netlify.app/mailling>
 - Currently over 1000 external students have enrolled.

Current
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2020

- **NEUS643: Stats for Neuroscientists'**
Neuroscience Graduate Program, Oregon Health & Science University
📍 Portland, OR
 - Course Director. An introduction to image processing, statistics, and machine learning focusing on confocal microscopy data.
 - Lecture/Active Learning Labs using RStudio.cloud.



EDUCATIONAL RESOURCES

Current
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2015

- **RBootcamp'**
Online Course
 - Online Interactive Introduction to the Tidyverse. Currently available as a free course to everyone.
 - Written with Jessica Minnier. Taken by incoming Bioinformatics students.

Last updated on 2020-07-18.

Current
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2017



Clinical Data Wrangling⁵

NLM T15 Data Science Workshop

- Multi-day workshop on understanding clinical data quality issues through both didactic lecturing and active data exploration.
- Written with Eilis Boudreau and Nicole Weiskopf.
- Given as an intro to both our incoming clinical and bioinformatics students.

2019
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2017



A gRadual Introduction to Shiny⁶

Workshop

- Workshop introducing basic interactive visualization and dashboard building using the Shiny framework for R
- Written with Jessica Minnier
- Given for PDX R User Group and WNAR 2019. Used by multiple colleges, including Reed College and Lehmann College

2019



How to make a reproducible paper⁷

BioData Club Workshop

- Workshop introducing best practices in data management and code management to make an analysis reproducible.
- Written with Aurora Blucher. Given for BioData Club.

2018



cvdRiskData Prediction Workshop⁸

Big Data to Knowledge (BD2K) workshop

- A workshop given for Portland State University students exploring the difficulties of predicting cardiovascular risk using shiny for exploratory data analysis and caret for machine learning. Part 1 and Part 2.
- Written with David Dorr

2018



Academic Site Workshop Using GitHub Pages⁹

BioData Club Workshop

- Workshop for setting up a personal academic website using GitHub Pages
- 115 students, faculty, and staff have used this workshop, many at external institutions



RESEARCH



SELECTED PUBLICATIONS, POSTERS, AND TALKS

2019



Clinical Data Wrangling: Active/Didactic Learning.

Symposium on Data Science and Statistics

- Ted Laderas, Nicole Weiskopf, and Eilis Boudreau. Talk given for Symposium on Data Science and Statistics.

2019



Data Scavenger Hunts: Learning about datasets together¹⁰

CSV Conference <https://doi.org/10.6084/m9.figshare.12654140.v1>

- Talk given for CSV Conference

- 2019 • **Democratizing Data Science Using LearnR and Shiny¹¹**
RStudio Conference
 - Poster on interactive visualization and pedagogy.
 - Written with Jessica Minnier
- 2017 • **Teaching data science fundamentals through realistic synthetic clinical cardiovascular data¹²**
Biorkv
 - Ted Laderas, Nicole Vasilevsky, Bjorn Pederson, Shannon McWeeney, Melissa Haendel, and David Dorr.
 - Contribution: First author: helped conceive study, designed bayesian network, developed course material based on dataset.



SELECTED DATA SCIENCE WRITING

- 2018 • **Things we learned teaching clinical data wrangling¹⁴**
 - My notes on teaching the clinical data wrangling short course, and intro course introducing students to the critical thinking data process with the Sleep Heart Health Study dataset

I regularly blog about education, data science, and mental health in a variety of places, but especially at my blog¹³



SERVICE HISTORY AND ACCOMPLISHMENTS

- Current | 2015 • **BioData Club¹⁵**
Oregon Health & Science University
 - Co-founder. Data Science focused community of practice. We are students, postdocs, staff, and faculty focused on learning Data Science skills together
 - Currently at 329 members spanning OHSU, PSU and beyond
- 2018 | 2017 • **Cascadia-R Conference¹⁶**
Oregon Health & Science University
 - Co-founder. Regional Conference focused on sharing skills and projects using the R Statistical language. Responsible for logistics, talk selection, and scholarship selection
 - 254 Attendees in 2018.




POSITIONS AND WORK EXPERIENCE

- Current | 2017 • **Assistant Professor, Division of Bioinformatics and Computational Biomedicine**
Medical Informatics and Clinical Epidemiology, Oregon Health & Science University

📍 Portland, OR
- 2017 | 2014 • **Faculty Instructor**
Medical Informatics and Clinical Epidemiology, Oregon Health & Science University

📍 Portland, OR

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- 2015
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2014
- **NLM Postdoctoral Fellow, Division of Bioinformatics and Computational Biology**
Medical Informatics and Clinical Epidemiology, Oregon Health & Science University
📍 Portland, OR
- 2014
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2009
- **NLM Predoctoral Fellow, Division of Bioinformatics and Computational Biology**
Medical Informatics and Clinical Epidemiology, Oregon Health & Science University
📍 Portland, OR
- 2002
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2001
- **Teaching Assistant/Computer Programmer/Server Admin, Medical Informatics and Clinical Epidemiology**
Oregon Health & Science University
📍 Portland, OR