Collin Nolte

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Github: https://github.com/collinn

EDUCATION

University of Iowa — Iowa City, IA
Ph.D Biostatistics — Jan 2018 - May 2022

University of Iowa — Iowa City, IA
M.S Applied Mathematics — Aug 2015 - Dec 2017

Oklahoma State University — Stillwater, OK
B.A Mathematics, B.S Accounting — Aug 2010 - May 2015

ACADEMIC AND PROFESSIONAL APPOINTMENTS

The University of Iowa
Machine learning programmer for university enrollment analytics — Summer 2020 - May 2022

The University of Iowa
Instructor of record, GENE:6234 Basic Biostatistical Methods and Genetic Applications — Spring 2021, 2022

The University of Iowa
Graduate research assistant, Dept. of Pharmacology — Spring 2017 - Spring 2020

The University of Iowa
Teaching assistant, mathematics — Fall 2015 - Fall 2017

PROJECTS

University of Iowa COVID-19 Shiny Dashboard — Iowa City, IA
Lead R Shiny programmer for university's public facing covid-19 website — April - June 2020

`bdots` – **R package** — Iowa City, IA
Bootstrapped differences in time series, submitted to CRAN — May 2020 - Present

An Intuitive, Interactive, Introduction to Biostatistics — Iowa City, IA
Introductory statistics textbook for students in health sciences with emphasis
on simulation-based inference (SBI) and interactivity with R Shiny applications — Summer 2020

`sassyR` – **R package** — Iowa City, IA
Common SAS functions in R for use in UI graduate course, Categorical Data Analysis — Spring 2019

Tissue Specific Expression Analysis (**TSEA**) — Iowa City, IA
R Shiny webapp for cross-tissue gene expression analysis in pharmacology — Fall 2017-Spring 2019

PUBLICATIONS

Demir-Lira, Ö. E., Asaridou, S. S., **Nolte, C.**, Small, S. L., & Goldin-Meadow, S. (2021). Parent Language Input Prior to School Forecasts Change in Children's Language-Related Cortical Structures During Mid-Adolescence. *Frontiers in human neuroscience*

PRESENTATIONS

Dealing with Multicollinearity and PCA — Iowa City, IA
Guest Lecture – Biostat Methods II — Spring 2022

Transformations and Slutsky's Theorem — Iowa City, IA
Guest Lecture – Likelihood Theory — Fall 2021

A pretty neat thing (about R) — Iowa City, IA
Perceptorship presentation — Fall 2020

R Tips & Tricks			Iowa City, IA
Professional Development Actvities Coordinators (PDAC)			Fall 2019
Command Line Arguments to R with HPC			Iowa City, IA
Biostatistics Student Organization – Invited talk			Fall 2019
Explorer's Guide to Rcpp			Iowa City, IA
Biostatistics Student Organization			Spring 2019
Supervised Principal Components for Classiciation			Iowa City, IA
Applied Mathematics Student Seminar			September 2018
Multiple Hypothesis Testing and False Discovery Rates			Iowa City, IA
Applied Mathematics Student Seminar			March 2018

Teaching

Course	Role	Term	Students
Basic Biostatist Methods & Genetic Applications (graduate)	Instructor	Spring 22	6
Machine Learning for Biomedical Data (graduate)	Grader	Spring 22	25
Likelihood Theory (graduate)	TA	Fall 21	15
Basic Biostatist Methods & Genetic Applications (graduate)	Instructor	Spring 21	10
Analysis of Categorical Data (graduate)	TA	Spring 20	16
Machine Learning for Biomedical Data (graduate)	Grader	Spring 20	21
Survival Data Analysis (graduate)	Grader	Fall 19	15
Math for Biology Majors	TA	Fall 17	30
College Algebra	TA	Spring 17	28
Engineering Math II	Grader	Fall 16	–
Calculus for Biology Majors	TA	Spring 16	53
Math for Biology Majors	TA	Fall 15	56

Service and Outreach

Biostatistics Student Organization	Iowa City, IA
Journal Club organizer	Fall 2018 - Spring 2019
Math Graduate Board	Iowa City, IA
Faculty Liason	Fall 2016 - Spring 2017
Lucas Elementary Math Day	Iowa City, IA
Participant and organizer for math games at local elementary school	Spring 2016, 2017
Sonia Ovalevsky Day (for women in STEM)	Iowa City, IA
Fund-raising committee member	Feb 2017

Awards and Grants

Certificate in College Teaching and Instructional Design	Iowa City, IA
Center for Integration of Research, Teaching, and Learning (CIRTL) certificate	Fall 2022
OpenHawk Open Education Resources Grant	Iowa City, IA
$7,000 funding	Spring 2020
Summer Fellowship: AMCS	Iowa City, IA
$4,000 and $3,466 research fellowship	Summer 2016, 2017
Informal – Math for Business	Iowa City, IA
A student wrote me a very nice thank you card at the end of the semester	Fall 2015

Professional Skills

Latex, R, HPC, git, markdown, R Shiny, Linux, C++, html, docker, podman

References

On request