

BUNYOD TUSMATOV

+1 513 501 4622 • tusmatbs@miamioh.edu • <https://bunyodjon.github.io/website/>

EDUCATION

Miami University, Oxford, OH

Expected May 2019

Master of Science: Statistics / Graduate Teaching Assistant

Selected Coursework: Statistical Programming (SAS), Biostatistics, Advanced Data Visualization (R), General Linear Models (R), Experimental Design, Time Series Analysis (R), Statistical Learning (R)

Master's Project: Evaluate text classification models, find blind spots and improve model accuracy

Earlham College, Richmond, IN

May 2013

Bachelor of Arts: Economics major and Mathematics minor (College Honors)

GPA: 3.4/4.0

WORK EXPERIENCE

Miami University, Oxford, OH

Sept 2017 – present

Graduate Teaching Assistant for STA 261, STA 125, STA 301, STA 404/504

- Conduct statistical lab sessions for introductory and business statistics courses with over 100 students from different disciplines.
- Explain statistical concepts and facilitate lab activities by leading activities and troubleshooting R issues.
- Hold office hours for statistics and non-statistics students, effectively communicate and guide them through homework and computer lab assignment challenges for all above mentioned classes.
- Grade homework, quizzes and in-class assignments of undergraduate statistics students and hold office hours for undergraduate and graduate students in advanced data visualization class.
- Provide feedback on statistical projects that range from simple model building (STA 261) to advanced data visualization projects that uses Shiny Apps and Plotly (STA 404/504).

Atria Senior Living, Louisville, KY

Jun 2018 – Aug 2018

Data Science Intern

- Designed and implemented projects in text mining, machine learning, A/B testing, etc. (R, Python, SQL)
- Wrangled data, implemented statistical analyses (using Logistic Regression, Bayes Classifier, K-nearest neighbors, Gradient Boosting, Random Forest, Neural Networks) and effectively communicated results to CFO, CEO, and five VPs. (R, SQL)
- Cooperated and contributed to designing and evaluating a complex lead-conversion prediction model that predicts potential clients.
- Wrote scripts that connect with IBM's NLU and Google's speech-to-text APIs for text mining purposes. (R)
- Automatized running a large attrition model and minimized weekly time-spent on running the model. (R)

University of Central Asia

May 2015 – Aug 2017

Math Faculty Member

- Designed and implemented Discrete Mathematics and Calculus curriculums for over 70 undergraduate students in an active learning classroom.
- Designed and prepared lesson plans, activities and presentations to enhance understanding of students.
- Arranged and executed tutorial sessions, hold office hours and graded assignments.
- Collaborated with other faculty members from different disciplines to create an interdisciplinary learning environment.
- Completed ad-hoc projects related to student and faculty recruitment that helped to open the university.

Cordasco Financial Network

May 2013 – Jun 2014

Financial Analyst / Researcher

- Reviewed financial statements and analyzed revenues, costs, expenses of companies
- Provided support with data gathering, compilation and delivery of financial plans
- Assisted the office manager with paying monthly bills and acquiring new accounts
- Controlled call volume and filtered information between departments and Financial Advisors

TECHNICAL/COMPUTER SKILLS

- (Proficient) R; (Proficient) SAS; (Proficient) SQL; (Familiar) Python.
- R (packages): dplyr, tidyverse, ggplot2, plotly, shiny, caret, keras, lubridate, text2vec, lme4, forecast.
- Python (modules): Tensorflow, Numpy, Pandas, Scikit Learn.
- Import, clean, integrate and transform data set(s) into required shapes using SAS, R, and Python
- Retrieve and filter data from databases using SQL queries within the R, SAS and Python
- Excellent knowledge of design principles and data visualization in R (ggplot2, Shiny App, plotly, geomaps) and storytelling skills e.g. https://bunyod.shinyapps.io/all_files/ and https://bunyod.shinyapps.io/graduate_project/
- Statistical model building by using classification, regression, neural network and clustering methods in R.
- Proficient knowledge in working with health/pharmaceutical data and implement biostatistical analysis
- Good understanding of global clinical trial phases and statistical methods used in each phase.
- Experience with the development of SAS MACROs with efficiency and creative problem-solving approach
- Completed 18 courses at DataCamp towards Data Science with R and Data Science with Python tracks

COMMUNITY SERVICES AND VOLUNTEERING

National Committee Member of United World Colleges, London, UK Jan 2015 – present

- Conduct annual competition in Mathematic and English for high school students in Tajikistan and select five finalists to study in one of schools of United World Colleges around the world.
- Ensure transparent process for the competition and empower rural youth to get a world-class education

Davis 100 Peace Project, Earlham College May 2010 – Aug 2010

- Managed and successfully completed the project that built a library with updated academic books to serve the educational needs of the vulnerable community
- Coordinated educational project and oversaw \$ 10,000 budget

Teaching Assistant for Calculus and Statistics classes, Earlham College, USA Jan 2012 – May 2012

- Tutored students individually and in small groups on learning class materials
- Assisted teachers with grading and preparing learning materials, quizzes and exams

IT Technician, Earlham College, USA Sep 2009 – Dec 2012

- Provided professional support for students and faculty on resolving software, hardware, and network issues
- Analyzed and explained technical information to users with varying levels of computer familiarity

AWARDS

- Full Graduate Teaching Assistantship Award, Miami University Sep 2017 – May 2019
 - Shelby Davis Scholarship Sep 2009 – May 2013
 - Full Scholarship to Earlham College Sep 2009 – May 2013
 - 100 Davis Peace Project, \$ 10,000 grant May 2010
 - United World Colleges scholarships to represent Tajikistan Sep 2007 – Jun 2009
 - Youth Leadership Program on Free Expression (USG alumnus) Jan 2007 – Feb 2007
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