

# BUNYOD TUSMATOV

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🌐 <https://bunyodjon.github.io/website/>

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## EDUCATION

**Miami University, Oxford, OH**

May 2019

*Master of Science:* Statistics and Graduate Teaching Assistant

*Selected Coursework:* Advanced Data Visualization (TA), Machine Learning, Statistical Programming, General Linear Models, Experimental Design, Regression Analysis, Time Series Analysis, Biostatistics

*Master's Thesis:* *Generalized Adversarial Distances to Efficiently Discover Classifier Errors (published)*

**Earlham College, Richmond, IN**

May 2013

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

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## WORK EXPERIENCE

**Insight2Profit, Cleveland, OH**

Aug 2019 – present

*Data Engineering Developer*

- Responsible for engineering and managing daily, weekly, and monthly data loads for several large clients
- Designed, built, and automated complex data pipelines from different ERP systems, web services, web scraping (competitor) and other unconventional data sources
- Designed and developed schemas, indexes, and SQL procedures to handle large transactional, customer, product, etc. data sets and created different metrics and attributes for pricing models
- Design and maintain development, UAT, and production databases of price measurement softwares
- Worked with business analysts and consultants to deliver pricing, quoting and BI solutions
- Continuously contributed to standardize data management practices, and provided technical mentorship to junior team members and summer interns

**Miami University, Oxford, OH**

Sept 2017 – May 2019

*Graduate Teaching Assistant*

- Conduct lab sessions for over 100 students, explain statistical concepts and facilitate lab activities
- Effectively communicate and guide students on homework, group projects, and lab assignments
- Create a collaborative classroom environment, hold office hours and homework help sessions
- Provide feedback on project drafts, presentations, and lab assignments

**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 and effectively communicated results (R, SQL)
- Cooperated and contributed to designing and evaluating complex lead conversion prediction model
- 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, Bishkek, Kyrgyzstan**

May 2015 – Aug 2017

*Math Faculty Member*

- Implemented Discrete Mathematics and Calculus curriculums 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 grade assignments
- Collaborated with other faculty members from different disciplines to create an interdisciplinary learning environment

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## TECHNICAL/COMPUTER SKILLS

- (Proficient) SQL; (Proficient) SSIS; (Proficient) R; (Familiar) PowerShell; (Familiar) Python.
- Develop databases for software, BI solutions, and modeling
- Import, clean, integrate and transform data set(s) into required shapes using SQL, R, and Python
- Build, evaluate and refine predictive models in R, SAS, and Python
- Excellent knowledge of data visualization in R (ggplot2, Shiny App, plotly, geomaps) and storytelling showcases (e.g. [https://bunyod.shinyapps.io/all\\_files/](https://bunyod.shinyapps.io/all_files/) and [https://bunyod.shinyapps.io/graduate\\_project/](https://bunyod.shinyapps.io/graduate_project/) )
- Implement machine learning projects using classification, regression, neural network, and clustering methods
- Proficient knowledge in working with health/pharmaceutical data and implement biostatistical analysis
- Proficient with Natural Language Processing and text analytics methods using R and Python.
- Completed 20 courses at DataCamp towards Data Science with R and Data Science with Python tracks
- Proficient in MS Office and MS Excel's VBA
- Experienced with querying, analyzing, inferencing and presenting a large amount of data using R and SAS

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## COMMUNITY SERVICES AND VOLUNTEERING

**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

**Business Manager of Red Square Club, Earlham College, USA** Sep 2010 – Dec 2012

- Organized and planned events to increase awareness about former Soviet Union countries
- Managed a budget of the club and reported to advisors about expenses and projects

**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

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## 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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