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Kyle Zachrich

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SUMMARY

- Math/statistics/design instructor and curriculum coordinator with specializations in geometry, 2D/3D animation, statistical analysis, and data visualization.
- Proficient with: Adobe Suite (Illustrator, InDesign, After Effects, Photoshop), Blender, Excel, Tableau
- Primary Programming Languages: CSS, HTML, Kotlin, MATLAB, Python, R, SAS, SQL

WORK EXPERIENCE

Advanced Instructor / Course Coordinator - Mathematics and Design

Virginia Tech

Aug 2017 — May 2024

Blacksburg, VA

- Taught Single Variable Calculus (I and II), Multivariable Calculus, Differential Equations, and Geometry of Design
- As course coordinator, I managed teaching assistants and developed curriculum for Geometry and Mathematics of Design, transforming a formerly automated online course into an innovative project-based course
- Collaborated with instructors from my own department as well as the School of Architecture and Design to create modern lesson plans that emphasized relevant job skills
- Created 3D animations and demonstrations to help students visualize topics that are difficult to express on a chalkboard
- Prepared and analyzed survey data to identify key factors in students' perception of the teaching effectiveness
- Acted as faculty advisor for 'VT Shredquarters,' mentor for GTA teacher certification, and K-12 outreach contributor

Instructor - Statistics

Gustavus Adolphus College

Feb 2017 — May 2017

St. Peter, MN

- Catered instruction to be relevant to students in non-technical disciplines

Instructor - Statistics

Minnesota State University

Aug 2014 - May 2017

Mankato, MN

- Taught College Algebra and Statistics courses, including statistical programming in MATLAB and R, first as a graduate assistant, then as a full-time instructor starting in August 2016
- Thesis: "Logistic and Survival Analysis of Substance Abuse Data" — As a personal project, I used this paper as a framework to build an Android app "Rehabulate" to help bring my results to the general public

Test Engineer

SGS IBR Laboratories

May 2012 — Jan 2014

Grass Lake, MI

- Designed, built, and operated test stands to conduct performance quality testing on filtration systems
- Worked with clients to develop custom tests, and served as technical support for water filtration tests

Upper School Teacher - Math and Physics

Colegio Decroly Americano

Mar 2011 — Dec 2011

Mixco, Guatemala

- Taught 10th grade Geometry and 8th grade Physical Science for one academic year at a top ranked international school

EDUCATION

Master of Science in Mathematics and Statistics, Minnesota State University, Mankato

2016

CELTA (Certificate in Teaching English to Speakers of Other Languages), BridgeTEFL

2010

Bachelor of Science in Physics and Mathematics, Eastern Michigan University

2010