

# Zachary Palank

zpalank@umich.edu

---

## Education:

<b>University of Michigan – Ann Arbor, MI</b>	Aug 2021 - Dec 2022
<b>Master of Science in Quantitative Finance and Risk Management</b>	
<b>University of Oklahoma – Norman, OK</b>	Aug 2013 - July 2021
<b>Bachelor of Science in Mathematics, European Studies Minor</b>	<b>3.71</b> May 2018
<b>Master of Science in Biostatistics</b>	<b>4.00</b> July 2021
<b>Thesis:</b> Strengths of a Semi-parametric Bayesian Classifier over Established Methods on Small Sample Sizes – Investigating data scenarios under t-tests of different assumptions and Wilcoxon-Mann-Whitney, versus a novel classifier	

---

## Work Experience:

<b><u>KBR: Topological Data Analysis Intern</u></b>	Summer 2020
<b><u>Epic Systems Corporation: Technical Solutions Engineer</u></b>	May – Dec 2018
<ul style="list-style-type: none"><li>• Coded in M to perform root cause analysis for healthcare networks, improve the internal workings of the company, and provide flexible solutions to individual customer demands.</li><li>• Headed companywide projects' software packages for an entire application, delegating and seeing projects to fruition.</li><li>• Consulted with customer healthcare organizations on Epic's software, implementing new features and software upgrades.</li></ul>	

---

## Achievements and Awards:

<b>Shell Financial Modeling Competition: First Place</b>	May 2021
• Created an interactive Pro Forma model in Excel, drawing in meaningful metrics of a real company from my own investigation	

---

## Skills and accompanying experience:

- R – Biostats M.S. Thesis, Advanced Applied Statistical Methods
- SAS - Computers in Data Analysis, Biostatistical Methods II, Analysis of Frequency Data
- Excel - Monte Carlo, Pivot tables, Macros, Form Control, Data Analysis, Investments, Solver
- M / Cache - Used during employment at Epic Systems Corporation
- Python - Minor use in Mathematical Modeling, Self study
- MATLAB - Numerical Analysis, Numerical Methods
- GIMP - Open-source raster graphics editor
- Origami - The art of paper folding for 16 years

**Mathematics:** Calculus, Abstract linear algebra, Matrix algebra, Real analysis, Modeling, Numerical analysis, Applied modern algebra, Cryptograph, ODE/PDE

**Statistics:** Linear & Multivariate & Logistic regression, Bayesian analysis, Frequency analysis, PCA, Hypothesis testing, Point & Interval estimation, Math theory

**Finance:** Macro, Micro, Accounting, Investments, Business, Modeling

---

## Extra-Curriculars:

<b>The Pride of Oklahoma Marching Band Squad Leader</b>	2016-2018
<b>Kappa Kappa Psi- National Honorary Band Service Fraternity</b>	2014-2017
<b>Editor of <i>The Daily Tuba</i> - Annual satirical publication</b>	2014-2017
<b>Sooner Bassoners – Studio Bassoon choir</b>	2014-2017