

# Jared D. Fisher, Ph.D.

2189 WVB - BYU  
Department of Statistics  
701 E University Pkwy  
Provo, UT 84602

Updated: January 31, 2025  
Office: 801-422-4244  
fisher@stat.byu.edu  
<https://jared df.github.io>

## EDUCATION

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### **Ph.D. in Statistics** 2019

Department of Information, Risk, and Operations Management  
McCombs School of Business  
University of Texas at Austin, Austin, TX  
Advisor: Carlos M. Carvalho  
Dissertation: “Balancing Model Structure and Flexibility in Forecasting Financial Time Series”

### **M.S. in Information, Risk, and Operations Management** 2017

Department of Information, Risk, and Operations Management  
McCombs School of Business  
University of Texas at Austin, Austin, TX

### **M.S. in Statistics** 2014

Department of Statistics  
Brigham Young University, Provo, UT  
Advisor: Gilbert W. Fellingham  
Project: “Bayesian Semiparametric Modeling of Major League Baseball Players’ Career Home Run Hitting Performance Curves”

### **B.S. in Statistics** 2012

Department of Statistics  
Brigham Young University, Provo, UT  
Minor: Mathematics

## ACADEMIC APPOINTMENTS

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**Brigham Young University**  
Assistant Professor 2021 - present

**University of California, Berkeley**  
Lecturer 2019 - 2021  
Postdoctoral Scholar 2019 - 2021

**University of Texas at Austin**  
Lecturer 2019  
Assistant Instructor 2017

## PUBLICATIONS

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Note: \* indicates graduate student coauthors, while \*\* indicates undergraduate students.

### Refereed Papers

5. Benjamin K. Dahl\*, Matthew J. Heaton, Richard L. Warr, **Jared D. Fisher**, Grant G. Schultz (2024). “Modeling Crash Risk on Roadway Networks using Bayesian Regression Trees”. *Technometrics*. Link to paper.
4. **Jared D. Fisher**, Colin Montague (2024). “Improving the Aggregation and Evaluation of NBA Mock Drafts”. *Journal of Quantitative Analysis in Sports*. Link to paper.
3. **Jared D. Fisher**, David W. Puelz, Carlos M. Carvalho (2020). “Monotonic Effects of Characteristics on Returns”. *Annals of Applied Statistics*. Link to paper.
2. **Jared D. Fisher**, Davide Pettenuzzo, Carlos M. Carvalho (2020). “Optimal Asset Allocation with Multivariate Bayesian Dynamic Linear Models”. *Annals of Applied Statistics*. Link to paper.
1. Gilbert W. Fellingham, **Jared D. Fisher** (2018). “Predicting Home Run Production in Major League Baseball Using a Bayesian Semiparametric Model”. *The American Statistician*. Link to paper.

### Working Papers

4. Andrew J. Cannon\*, **Jared D. Fisher**, Gilbert W. Fellingham, Garritt L. Page. “Analyzing the Effect of NBA Head Coaches”.
3. **Jared D. Fisher**, Kyle R. McEvoy\*. “Bayesian Multinomial Logistic Regression for Numerous Categories”. Link to arXiv paper.
2. **Jared D. Fisher**, David W. Puelz, Sameer K. Deshpande. “A Bayesian Classification Trees Approach to Treatment Effect Variation with Noncompliance”. Link to arXiv paper.
1. Caleb Carlyle\*\*, **Jared D. Fisher**, Garritt L. Page, Gilbert W. Fellingham. “Postseason Risers and Fallers: Investigating Performance Differences in NBA Players”.

### Work in Progress

5. “Determining Overplayed and Underplayed NBA lineups” with Devan Gwynn\*\*, Gilbert W. Fellingham, Garritt L. Page.
4. “Hierarchical Plackett-Luce Models for the NBA Draft” with Brady Heinig\*\*.
3. “Incorporating Fatigue in NBA Adjusted Plus-Minus” with Tyler Barlow\*\*, Nathan Sandholtz.
2. “Predictive Capability of the Grade of Membership Model” with Elizabeth J. Patterson\*, H. Dennis Tolley, James Oliphant.
1. “Bayesian Additive Regression Trees for Large Spatial Data” with Benjamin K. Dahl\*, Matthew J. Heaton, Richard L. Warr.

## Other Works

3. **Jared D. Fisher** and David W. Puelz (2020). Review 1 of “Firearm Purchasing and Firearm Violence in the First Months of the Coronavirus Pandemic in the United States” for *Rapid Reviews: COVID-19*. <https://rapidreviewscovid19.mitpress.mit.edu/pub/3mbutnjm/release/2>
2. **Jared D. Fisher** (2019). Balancing Model Structure and Flexibility in Forecasting Financial Time Series. Dissertation. <https://repositories.lib.utexas.edu/handle/2152/75030>
1. Student contributor to the labs for “Foundations of Applied Mathematics” curriculum, under Jeffrey Humpherys (2013). <https://foundations-of-applied-mathematics.github.io/>

## PRESENTATIONS

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### Invited Presentations

- International Society for Bayesian Analysis World Meeting, Venice, Italy July 2024  
“A Bayesian Classification Trees Approach to Treatment Effect Variation with Noncompliance”
- Division of Biostatistics, University of Utah, Salt Lake City, Utah December 2023  
“A Bayesian Classification Trees Approach to Treatment Effect Variation with Noncompliance”
- ASA Utah Chapter Annual Meeting, Salt Lake City, Utah October 2023  
“From Classroom to Career: Excelling in Statistics and Data Science” - Panelist
- Causal Inference Seminar, Salem Center for Policy, Austin, TX March 2022  
“A Bayesian Semiparametric Approach to Treatment Effect Variation with Noncompliance”
- Department of Statistics, Brigham Young University, (online) February 2021  
“A Bayesian Semiparametric Approach to Treatment Effect Variation with Noncompliance”
- BYU Mathematical Finance Club, (online) November 2020  
“Monotonic Effects of Characteristics on Returns”
- Federal Reserve Bank, Atlanta, GA March 2019  
“Monotonic Effects of Characteristics on Returns”
- Department of Statistics, Brigham Young University, Provo, UT November 2018  
“Monotonic Effects of Characteristics on Returns”

### Contributed Presentations

- Joint Statistical Meetings, Portland, Oregon August 2024  
“Improving the Aggregation and Evaluation of NBA Mock Drafts”
- American Causal Inference Conference, Seattle, Washington May 2024  
“A Bayesian Classification Trees Approach to Treatment Effect Variation with Noncompliance” - Poster
- Joint Statistical Meetings, Toronto, Canada August 2023  
“Aggregating Forecasts of Ranked Lists: What Information do Mock Drafts Provide about the Actual National Basketball Association Draft?” - Poster
- American Causal Inference Conference, Austin, Texas May 2023  
“A Bayesian Semiparametric Approach to Treatment Effect Variation with Noncompliance” - Poster

- Joint Statistical Meetings, Washington DC August 2022  
“A Bayesian Semiparametric Approach to Treatment Effect Variation with Noncompliance”
- International Society for Bayesian Analysis World Meeting, Montreal, Canada July 2022  
“A Bayesian Semiparametric Approach to Treatment Effect Variation with Noncompliance” - Poster
- Seminar on Bayesian Inference in Econometrics and Statistics, (online) August 2020  
“Optimal Asset Allocation with Multivariate Bayesian Dynamic Linear Models”
- European Seminar on Bayesian Econometrics, New Orleans, LA October 2018  
“Monotonic Effects of Characteristics on Returns”
- Joint Statistical Meetings, Vancouver, BC, Canada July 2018  
“Monotonic Effects of Characteristics on Returns”
- International Society for Bayesian Analysis World Meeting, Edinburgh, UK June 2018  
“Monotonic Effects of Characteristics on Returns”
- Seminar on Bayesian Inference in Econometrics and Statistics, Stanford, CA May 2018  
“Monotonic Effects of Characteristics on Returns”
- INFORMS Annual Meeting, Houston, TX October 2017  
“Bayesian Dynamic Linear Models for Strategic Asset Allocation”
- INFORMS Advances in Decision Analysis, Austin, TX June 2017  
“Bayesian Dynamic Linear Models for Strategic Asset Allocation”
- Seminar on Bayesian Inference in Econometrics and Statistics, St. Louis, MO May 2017  
“Bayesian Dynamic Linear Models for Strategic Asset Allocation”
- Joint Statistical Meetings, Chicago, IL August 2016  
“Bayesian Dynamic Linear Models for Strategic Asset Allocation”
- New England Symposium for Statistics in Sports, Cambridge, MA September 2011  
“Clustering Performance Curves” - Poster

## Local Presentations

- IDEA Labs, Brigham Young University, Provo, UT September 2022  
“A Bayesian Semiparametric Approach to Treatment Effect Variation with Noncompliance”
- Department of Statistics, Brigham Young University, Provo, UT October 2021  
“A Bayesian Semiparametric Approach to Treatment Effect Variation with Noncompliance”
- Sports Analytics Group at Berkeley, Berkeley, CA (online) April 2020  
“Predicting Home Run Production in Major League Baseball Using a Bayesian Semiparametric Model”
- IROM Brownbag, Austin, TX September 2018  
“Improving Predictions in Finance with Dynamic Bayesian Methods”
- IROM PhD Symposium, Austin, TX April 2018  
“Monotonic Effects of Characteristics on Returns”
- IROM PhD Seminar, Austin, TX September 2017  
“Bayesian Dynamic Linear Models for Strategic Asset Allocation”

- IROM PhD Seminar, Austin, TX September 2016  
“Bayesian Dynamic Linear Models for Strategic Asset Allocation”
- IROM PhD Seminar, Austin, TX March 2016  
“Bayesian Dynamic Linear Models for Strategic Asset Allocation”
- BYU CPMS Student Research Conference, Provo, UT March 2013  
“Modeling Functional Data; Batting Performance of Major League Baseball Players”
- BYU CPMS Spring Research Conference, Provo, UT March 2012  
“Modeling Functional Data; Batting Performance of Major League Baseball Players”
- BYU CPMS Spring Research Conference, Provo, UT March 2011  
“Parametric Bayesian Fitting of Cubic Splines to Model Major League Baseball Player Performance”

## TEACHING EXPERIENCE

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### Brigham Young University

- as Faculty
  - STAT 340 - Probability and Inference 2 (BS). Wi 2022, Wi 2023, Wi 2024, Wi 2025
  - STAT 497R - Introduction to Research (BS). Fa 2024, Wi 2025
  - STAT 536 - Statistical Learning and Data Mining (MS). Fa 2021, Wi 2023, Fa 2023, Fa 2024
- as Teaching Assistant
  - STAT 221 - Principles of Statistics (BS). Fa 2009, Wi 2010
  - STAT 340 - Inference (BS). Fa 2012, Wi 2013, Fa 2013, Wi 2014
  - STAT 624 - Statistical Computation (MS). Fa 2013
  - STAT 635 - Mixed Model Methods (MS). Wi 2014
- as Bilingual Tutor
  - STAT 424 - Capstone on SAS and SQL (BS). Wi 2011

### University of California, Berkeley

- as Faculty (Lecturer)
  - STAT 153 - Introduction to Time Series (BS). Fa 2019, Sp 2020, Fa 2020, Sp 2021

### University of Texas at Austin

- as Lecturer (instructor, after graduation)
  - STA s380.17 - Predictive Modeling (MS Business Analytics). Su 2019
- as Assistant Instructor (instructor, before graduation)
  - STA 309 - Elementary Business Statistics (BS). Fa 2017
- as Teaching Assistant
  - STA 371G - Statistics and Modeling (BS). Sp 2016, Fa 2016, Sp 2017, Sp 2018
  - STA 380.10 - Mathematical Statistics for Applications (MS/PhD). Fa 2015
  - STA s380.17 - Predictive Modeling (MS Business Analytics). Su 2016, Su 2017, Su 2018
  - B A 386T - Statistics (EMBA). Fa 2015, Fa 2018

## STUDENT ADVISING

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### as MS Committee Chair

- Elizabeth Patterson 2022 - 2024  
Project Title: “Comparing Computational Strategies and Evaluating the Predictive Capability of the Grade of Membership Model”  
After Graduation: Biostatistician at University of Utah Medical School
- Andrew Cannon 2022 - 2024  
Project Title: “Analyzing the Effects of NBA Head Coaches”  
After Graduation: Iowa State Statistics PhD program

### as MS Committee Member

- Jason Cook 2023 - 2025  
Project Title: “Bayesian Partition Estimation for Big Data using Splinters”  
After Graduation: -Not yet graduated-
- Benjamin Dahl 2022 - 2024  
Project Title: “Modeling Crash Risk on Roadway Networks using Bayesian Regression Trees”  
After Graduation: Duke Statistics PhD program
- Max Smith 2021 - 2023  
Project Title: “Handling Imbalance in Credit Card Fraud Data”  
After Graduation: Data Analyst at Progressive Leasing
- Skyler Gray 2020 - 2022  
Project Title: “Substituting Neural Networks for Gaussian Processes”  
After Graduation: Sandia National Lab
- Jacob Andros 2020 - 2022  
Project Title: “Search Algorithms and Loss Functions for Bayesian Feature Allocation Models”  
After Graduation: Texas A&M Statistics PhD program

### as Research Mentor

Worked With	Student	After University
2024 - present	Devan Gwynn	-Not yet graduated-
2024 - present	Caleb Carlyle	-Not yet graduated-
2024 - present	Tyler Barlow	-Not yet graduated-
2023 - 2024	Brady Heinig	-Applying to graduate programs-
2023 - 2024	Matthew Ng	Statistical Analyst Intern at AAPC
2023 - 2024	Matthew Blackley	Texas A&M Statistics PhD program
2021 - 2022	Andrew Cannon	BYU Statistics MS program
2020 - 2021	Richard Yu	Analyst
2020 - 2021	Kyle McEvoy	UCLA Statistics PhD program
2020 - 2020	Liam Shaw	Data Scientist at Wolverine Trading

## SERVICE

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### to Department

- BYU Statistics Student Outreach Committee 2023 - present
- BYU Statistics Graduate Admissions Committee 2023 - present
- BYU Statistics Graduate Comprehensive Exam Committee 2021 - present
- BYU Statistics Department Curriculum Committee 2022 - 2023
- BYU Statistics Department Seminar Co-coordinator 2021 - 2022
- UT Austin IROM PhD Seminar Co-founder, Organizer 2017 - 2017

### to College

- BYU CPMS Student Research Conference Session Judge 2022 - present
- BYU Sports Analytics Reading Group Co-founder, Organizer 2022 - 2024

### to Profession

- Associate Editor, Journal of Quantitative Analysis in Sports 2023 - present
- Secretary, ISBA Section on Economics, Finance, and Business (EFaB) 2023 - 2024
- Student Paper Awards Committee, ASA Business and Economics Statistics Section 2021 - 2024

### Reviewer for

- *Journal of Business and Economic Statistics*
- *Journal of Computational and Graphical Statistics*
- *Journal of Quantitative Analysis in Sports*
- *Journal of the Royal Statistical Society: Series C*
- *NeurIPS*
- *National Science Foundation (NSF) Grant Proposal*
- *Statistics in Medicine*
- *Rapid Review: COVID-19*

## GRANTS

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- “Bayesian Non-parametric Modeling of Functional Data”. (2011) BYU Office of Research, Creative Activities ORCA Grant. PI. \$1500. *Funded*.

## AWARDS & HONORS

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- Nominee, Extraordinary Teaching in Extraordinary Times Award (UC Berkeley) 2020 - 2021
- ISBA EFaB Junior Researcher Travel Award (ESOBE) 2018
- Graduate School Continuing Fellowship (UT Austin) 2018 - 2019
- Dean's Fellowship (UT Austin) 2015 - 2019
- William Powers, Jr. Graduate Recruitment Fellowship (UT Austin) 2014 - 2015
- Best Session Presentation, BYU CPMS Student Research Conference 2013
- BYU President's Leadership Council's Mentored Student Group Member 2011 - 2014
- Together for Greatness Tuition Scholarship (BYU) 2011 - 2012
- BYU Department of Statistics Scholarship 2010
- BYU Undergraduate Tuition Scholarship 2006 - 2007, 2009 - 2012
- Eagle Scout 2003

## MEMBERSHIPS

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American Statistical Association (ASA)

- Business and Economic Statistics Section
- Section on Bayesian Statistical Science
- Statistics in Sports Section

International Society for Bayesian Analysis (ISBA)

- Section on Economics, Finance, and Business
- Section on Bayesian Nonparametrics

Society for Causal Inference (SCI)

## LANGUAGES

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**English** - native

**Mandarin Chinese** - tested HSK level 4 in 2010

## INDUSTRY EXPERIENCE

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**Integra REC**, Austin, TX 2015  
Analyst Intern

**Vivint**, Provo, UT 2014  
Business Analytics Intern

**ActiveCare**, Provo, UT 2013  
Statistical Consultant



**VolleyMetrics**, Provo, UT  
Research Associate

2013

**Savvysherpa**, Provo, UT  
Research Intern

2012