

# JORDAN TAIT

*email*

taitj@miamioh.edu

## EDUCATION

<i>Michigan State University</i>	<b>2019-Current</b>	Doctorate of Philosophy
		Measurement & Quantitative Methods Major Professor   Dr. Kenneth Frank
<i>Michigan State University</i>	<b>2016-2018</b>	Master of Science
		Statistics & Probability Major Professor   Dr. Frederi Viens
<i>Michigan State University</i>	<b>2012-2014</b>	Master of Science
		Mathematics & Statistics Major Professor   Dr. In-Jae Kim Thesis: Building a Predictive Model for Baseball Games
<i>Minnesota State University Mankato</i>	<b>2007-2012</b>	Bachelor of Science
		Mathematics & Physics Major Professor   Dr. In-Jae Kim

## PROFESSIONAL EXPERIENCE

<i>Miami University</i>	<b>2022-Current</b>	Visiting Assistant Professor  ISA 125   Introduction to Business Statistics
<i>Michigan State University</i>	<b>2022</b>	Center for Statistical Training & Consulting  Provides expertise and guidance on study design, statistical methods, interpretation of results and conducts statistical analyses. Participates in grant proposal applications with design and methods considerations and sample size determination. Provides research data management services and collaborates on manuscripts, serving as co-authors.
<i>Michigan State University</i>	<b>2021-2022</b>	Summer Institute in Advanced Research Methods for STEM and Education Research  Lectured on Probability, Statistics and R programming. Provided working sessions to help research professionals master rigorous and novel applications of advanced statistical methods & provide continuous methodological support in research planning and data analysis.
<i>Michigan State University</i>	<b>2020-2022</b>	Research Assistant   Construction Management  Analyze multilevel surveys, emails and messaging data by student teams and professional teams in order to gain insight on team dynamics, utilizing social network analysis techniques such as core periphery analysis and sub-group analysis.
<i>Michigan State University</i>	<b>2019-2020</b>	Research Assistant   Teachers In Social Media  Modeled changes in Teachers' access, sharing & diffusion of resources within social networks across physical and virtual spaces. Lead undergraduate team for data collection, processing & presentation.

<i>Michigan State University</i>	<b>2019</b>	<b>Fixed Term Faculty</b>
		STT 351   Probability and Statistics for Engineering
<i>Michigan State University</i>	<b>2018</b>	<b>Teaching Assistant</b>
		STT 315   Business Statistics
<i>Michigan State University</i>	<b>2017</b>	<b>Research Assistant   Neuroscience</b>
		Provided statistical consultation for research efforts lead by Dr Mark Reimers in Neuroscience including machine learning algorithms to automate detection of neurons within optical images. Lead & guided undergraduate research efforts.
<i>Michigan State University</i>	<b>2016</b>	<b>Teaching Assistant</b>
		STT 200   Introduction to Statistics
<i>United Health Group</i>	<b>2015–2016</b>	<b>Data, Research &amp; Development Analyst</b>
		Performed and published health care research through extensive analysis, modeling, interpretation, management and data cleansing in a Big Data environment. Created automated flagging system for incoming data. Codename: The Sentinel
<i>Mathnasium</i>	<b>2014–2015</b>	<b>Instructor</b>
		Bridged the gap between traditional & newer mathematical programs by cultivating an intuitive understanding of math, teaching students to become strong problem solvers.
<i>Minnesota State University Mankato</i>	<b>2012–2014</b>	<b>Teaching Assistant</b>
		STAT 154   Introduction to Statistics MATH 112   College Algebra
<i>Minnesota State University</i>	<b>2012–Current</b>	<b>Private Tutor</b>
		Intro Statistics, Business Statistics, Algebra, Calculus, Physics, Chemistry
<i>Minnesota State University</i>	<b>2009–2014</b>	<b>President: SAMER</b>
		The Student Association for Mathematical Experiences in Research: provided students with an opportunity to perform statistical & mathematical research through interaction with faculty members and other students, presenting results at conferences & publishing results.

## SCHOLARSHIP

Peer Reviewed  
Articles

Zhao, D., Duva, M., Mollaoglu, S., Frank, K., Garcia, A., & **Tait, J.** (2021). Integrative Collaboration in Fragmented Project Organizations: Network Perspective. *Journal of Construction Engineering and Management*, 147(10), 04021115.

Torphy Knake, K., Chen, Z., Yang, X., & **Tait, J.** (2021). Pinterest curation and student achievement: The effects of elementary mathematics resources on students' learning over time. *Elementary School Journal*.

Kim, I. J., Barthel, B. P., Park, Y., **Tait, J. R.**, Dobmeier, J. L., Kim, S., & Shin, D. (2014). Network analysis for active and passive propagation models. *Networks*, 63(2), 160-169.

## Book Chapters

Torphy Knake, K., **Tait, J.**, & Frank, K. (2022). Use of social media communities to improve education. *Handbook on Improvement Research in Education*. Rowman & Littlefield.

## Presentations

**Tait, J.** (2014). *Searching for Optimal Betting Points Major League Baseball*. Mathematical Association of America. St. Cloud, Minnesota

**Tait, J.** (2012, April 9). *Network Modeling of Social Influences*. Undergraduate Research Symposium, Mankato, MN.  
<https://cornerstone.lib.mnstate.edu/urs/2012/oral-session-14/2>  
*Best Presentation Award*

DeBoer, S., **Tait J.**, Huang B., & Van Klei, A. (2012, April 9). *Mathematical Modeling and Simulation of Diabetes Dynamics*. Undergraduate Research Symposium, Mankato, MN.  
<https://cornerstone.lib.mnstate.edu/urs/2012/oral-session-04/1>

**Tait, J.** (2011, April 4). *What Does the Network Structure of Power Grids Tell Us About Blackouts?* Undergraduate Research Symposium, Mankato, MN.  
<https://cornerstone.lib.mnstate.edu/urs/2011/oral-session-05/5>  
*Best Presentation Award*

## TEACHING

<i>Michigan State University</i>	<i>Fall 2020</i>	<b>CEP 982: STATISTICAL TOOLBOX</b> Guest Lecture: Machine Learning & Neural Networks
	<i>2019</i>	<b>STT 351: PROBABILITY AND STATISTICS FOR ENGINEERING</b> Instructor
	<i>2018</i>	<b>STT 315: BUSINESS STATISTICS</b> Graduate Assistant to Professor Elijah Dikong
	<i>Summer 2018</i>	<b>STT 315: BUSINESS STATISTICS</b> Instructor
	<i>2018</i>	<b>STT 315: BUSINESS STATISTICS</b> Graduate Assistant to Professor Leonard Johnson
	<i>2017</i>	<b>STT 315: BUSINESS STATISTICS</b> Graduate Assistant to Professor Camille Fairbourn
	<i>2017</i>	<b>STT 200: STATISTICAL METHODS</b> Instructor
	<i>2016-2017</i>	<b>STT 200: STATISTICAL METHODS</b> Graduate Assistant
<i>Minnesota State University</i>	<i>2013-2014</i>	<b>STAT 154: INTRODUCTION TO STATISTICS</b> Instructor
	<i>2012-2013</i>	<b>MATH 112: COLLEGE ALGEBRA</b> Instructor
	<i>2011-2012</i>	<b>MATH 098: INTERMEDIATE ALGEBRA</b>

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STUDENT EVALUATIONS | MOST RECENT COURSES

	Instructor		Willingness			
	Rating	Organization	to help	Preparation	Explanations	Interactions
STT 200   S19	Mean	1.42	1.52	1.38	1.52	1.42
STT 200   S19	Mean	1.63	1.72	1.63	1.54	1.72
STT 200   S19	Mean	1.54	1.66	1.33	1.21	1.37
STT 200   S19	Mean	1.54	1.66	1.16	1.37	1.52
STT 351   S19	Mean	1.70	1.62	1.49	1.44	1.81
						1.71

\*Scores range from Superior (1) to Inferior (5)

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STUDENT EVALUATIONS | AVERAGE ACROSS COURSES

	Instructor		Willingness			
	Rating	Organization	to help	Preparation	Explanations	Interactions
STT 200   n=11 Intro Stats	Mean	1.45	1.57	1.32	1.42	1.50
	SD	0.68	0.71	0.58	0.64	0.72
STT 315   n=9 Business Stats	Mean	1.45	1.59	1.32	1.46	1.48
	SD	0.63	0.76	0.55	0.70	0.62
STT 351   n=1 Engineering Stats	Mean	1.70	1.62	1.49	1.44	1.81
	SD	0.90	0.88	0.69	0.67	0.85
						0.99

\*Scores range from Superior (1) to Inferior (5) ;  
n = number of courses taught

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	Organization	Confidence in instructor			
		Enthusiasm to students	Encouragement to students	Respect to students	
STAT 154   n=4 Intro Stats	Mean	4.5	4.5	4.8	4.4
	SD	0.6	0.9	0.4	0.9
MATH 112   n=2 College Algebra	Mean	4.7	4.8	4.7	4.5
	SD	0.5	0.5	0.4	0.7

\*Scores range from Lowest (1) to Highest (5);  
n = number of courses taught

**SERVICE**

<i>2021-2022</i>	Student Representative   Faculty Committee Student Representative for the Measurement and Quantitative Methods Program
<i>2021-2022</i>	Student Advisory Committee Department of Counseling, Educational Psychology & Special Education
<i>2021</i>	Social Networks in Public Health Workshop University of Michigan — Facilitator
<i>2018</i>	Counsel of Graduate Students Department of Statistics and Probability representative
<i>2018</i>	University Counsel of Graduate Studies Department of Statistics and Probability & COGS representative
<i>2017-2018</i>	Teaching Assistant Mentoring Lead Teaching Assistant
<i>2017</i>	Undergraduate Research & Arts Forum Volunteer Evaluator for Engineering, Computer Science & Mathematics

**SOFTWARE / PROGRAMMING***Proficient*

<i>Statistics &amp; Mathematics</i>	R, SAS SPSS, Mathematica
<i>General Purpose</i>	Python, SQL, Latex
<i>Other software</i>	Gimp, Adobe Photoshop, Excel Windows, Mac, Microsoft Visual Studio

**AWARDS**

<i>Michigan State University</i>	<i>2019</i>	Robert L. Ebel Endowed Sholorship
	<i>2017</i>	Outstanding Graduate Student Teaching Award
<i>Minnesota State University</i>	<i>2012</i>	Best Presentation Award Undergraduate Research Symposium
	<i>2011</i>	Best Presentation Award Undergraduate Research Conference
	<i>2008-2011</i>	SMART Grant Recipient
	<i>2008-2011</i>	Deans List Recipient