

JORDAN TAIT

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EDUCATION

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

PROFESSIONAL EXPERIENCE

Miami University	2022-Current	Visiting Assistant Professor
		ISA 125 Introduction to Business Statistics
Michigan State University	2022	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.
Michigan State University	2021-2022	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.
Michigan State University	2020-2022	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.
Michigan State University	2019-2020	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>	2019	Fixed Term Faculty	STT 351 Probability and Statistics for Engineering
	2018	Teaching Assistant	STT 315 Business Statistics
<i>Michigan State University</i>	2017	Research Assistant Neuroscience	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.
	2016	Teaching Assistant	STT 200 Introduction to Statistics
<i>United Health Group</i>	2015–2016	Data, Research & Development Analyst	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
	2014–2015	Instructor	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>	2012–2014	Teaching Assistant	STAT 154 Introduction to Statistics MATH 112 College Algebra
	2012–Current	Private Tutor	Intro Statistics, Business Statistics, Algebra, Calculus, Physics, Chemistry
<i>Minnesota State University</i>	2009–2014	President: SAMER	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.mnsu.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.mnsu.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.mnsu.edu/urs/2011/oral-session-05/5>

Best Presentation Award

TEACHING

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

Michigan State
University

STUDENT EVALUATIONS | MOST RECENT COURSES

		Instructor Rating	Organization	Willingness to help	Preparation	Explanations	Interactions
STT 200 S19	Mean	1.42	1.52	1.38	1.52	1.42	1.57
STT 200 S19	Mean	1.63	1.72	1.63	1.54	1.72	1.63
STT 200 S19	Mean	1.54	1.66	1.33	1.21	1.37	1.56
STT 200 S19	Mean	1.54	1.66	1.16	1.37	1.52	1.7
STT 351 S19	Mean	1.70	1.62	1.49	1.44	1.81	1.71

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

Michigan State
University

STUDENT EVALUATIONS | AVERAGE ACROSS COURSES

		Instructor Rating	Organization	Willingness to help	Preparation	Explanations	Interactions
STT 200 n=11	Mean	1.45	1.57	1.32	1.42	1.50	1.49
Intro Stats	SD	0.68	0.71	0.58	0.64	0.72	0.72
STT 315 n=9	Mean	1.45	1.59	1.32	1.46	1.48	1.46
Business Stats	SD	0.63	0.76	0.55	0.70	0.62	0.68
STT 351 n=1	Mean	1.70	1.62	1.49	1.44	1.81	1.71
Engineering Stats	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

Minnesota State
University

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

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

SERVICE

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

SOFTWARE / PROGRAMMING

Proficient

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