Jackson J. Deal

CURRICULUM VITAE

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EDUCATION

2026-Present — **University of Kansas**, Lawrence, Kansas, 66045
Degrees: Master of Arts (*Anticipated 2028*), Doctor of Philosophy (*Anticipated 2030*)
Major: Psychology, Brain, Behavior and Quantitative Sciences Concentration
Relevant Graduate Coursework: Statistical Methods in Psychology, Cognitive Neuroscience, Proseminar in Quantitative Behavioral and Social Sciences

2023-2026 — **Southwest Baptist University**, Bolivar, Missouri, 65613
Degrees: Bachelor of Sciences and Honors, Summa Cum Laude, GPA: 4.0
Majors: Psychology and Mathematics
Minor: Statistics
Graduate Certificate: Data Analytics
Relevant Undergraduate Coursework: Advanced Research, Physiological Psychology, Neurodevelopmental Disorders, Behavior Analysis, Anatomy and Physiology II, Linear Algebra, Calculus III, Differential Equations, Analysis of Variance, Mathematical Statistics II, Advanced Calculus, Senior Honors Capstone

Relevant Graduate Coursework: Data Analytics, Applied AI: Solutions for Business and Technology, Processing Data for Decision-Making, Big Data Analytics for IoT, Leading Data Analytics Projects
GPA: 4.0

2022-2023 — **Drury University**, Springfield, Missouri, 65897
Relevant Coursework: Calculus II, Research, Social Psychology, Abnormal Psychology GPA: 4.0

2021-2024 — **University of Central Missouri,** Warrensburg, Missouri, 64093
Relevant Coursework: Calculus 1, Composition I, Composition II, Fundamentals of Speech Communication GPA: 4.0

RESEARCH EXPERIENCE

Healthy Americas Research Consortium Scholarship Research Project November 2025-Present
Arizona State University
Faculty Supervisors: Dr. Susan Holechek
Project: How do type 2 diabetes mellitus subtypes affect the Hispanic population and non-Hispanic populations in the U.S., and how do genetic polymorphisms affect the development and expression of the subtypes within Hispanic and non-Hispanic populations?

- Creating cohorts for the T2DM subtypes using Hispanic and non-Hispanic groups in the *NIH All of Us* database
- Analyzed the frequency of gene variants among the T2DM subtype development within Hispanic and non-Hispanic populations with R and Python programming.
- Comparing subtype analysis results, attempt to link genes to subtypes and diabetic symptoms within the Hispanic and non-Hispanic groups
- Presented findings at SOLUR Symposium in Arizona State University
- Developed and submitted manuscript for publication

Honors Capstone Project August-December 2025
Southwest Baptist University
Faculty Supervisors: Stephen Bowling, Ph.D. and James Sly, M.S.
Project: Exploring mathematical modeling of cognitive processes of conflicting beliefs and identity changes via differential equations, electromagnetic waves and Fourier transforms.

- Utilized a 3D Euler equation to develop a theoretical envelope for the steps of the Pathway of Identity Change which was inspired by Dr. Bill DuVall
- Explored Spherical Bessel Functions and Spherical Harmonic Functions and how they may connect to certain cognitive processes with brain scan imagery
- Determined if there are connections between the mathematical models for the Pathway of Identity Change and cognitive processes
- Presented my findings at the SBU Honors Capstone Panel and at the Midwest Christian Psychology Conference

Quantitative Research in the Life and Social Sciences Program Research Experience of Undergraduates May-July 2025
Arizona State University
Faculty Supervisor: Susan Holechek, Ph.D.
Project: How do each of the type 2 diabetes mellitus subtypes contribute to cardiovascular and kidney disease risk in the diverse population of the United States?

- Received intense lectures and coding sessions on Stochastic Process Models, Dynamic Systems, Mathematical Epidemiology, Combinatorics and Data Science

- Constructed SEIR-based models using differential equations and analyzed how Type 2 diabetes subtypes contribute to cardiovascular and kidney disease across diverse populations in the U.S.
- Presented our findings at Arizona State University
- Technical Report: https://drive.google.com/file/d/1BmCO0frSyKQZpHkQe1T29hl8acl68NwC/view?usp=sharing

Peer Relations Lab Internship January-May 2025
Missouri State University
Faculty Supervisor: Leslie Echols, Ph.D.
Project: Creating an intervention program to help students to develop skills for self-empowerment and to prevent bullying

- Obtained over 150 hours of lab work
- Assisted in teaching lessons while occasionally taught them by myself
- Used Jamovi to run a Confirmatory Factor Analysis on a Co-rumination Questionnaire
- Presented findings of CFA at the Great Plains Conference and the MCHHS Research Symposium

Advanced Research Course Survey August-December 2024
Southwest Baptist University
Faculty Supervisor: Shelley Kilpatrick, Ph.D.
Project: The impact of cell phone use on sleep quality and social, mental, and spiritual health.

- Researched methods required to design a survey investigating stress and college adjustment
- Coded qualitative participant responses for survey
- Analyzed data using SPSS for presentation at conference
- Collaborated with another classmate to write a full-length research paper

NeuroCALL Lab Internship August 2024
University of Central Missouri
Faculty Supervisor: Adam Runyan, Ph.D.

- NeuroCALL Training.docx

Job Shadow with Dr. Robert Coffman January 2024
Citizens Memorial Healthcare (CMH)

- Observed Psychometric Testing and reporting with Dr. Lydia Douglas and Dr. Robert Coffman

CONFERENCE PROCEEDINGS

Martínez F. A., Jensen M., **Deal J. J.**, Rodriguez J., Waterman S., Wilson J., and Holechek A. S., Ph.D. (2026, April 23). *Beyond One-Size-Fits-All: Genetic Roadmap for Personalized Diabetes Care in Hispanic Americans* [Poster Session]. School of Life Sciences Undergraduate Research Symposium, Tempe, AZ.

- **Awarded 3rd Place in the Conference**

PRESENTATIONS

Deal J. J., Bowling S., DuVall B., & Sly J. (2025, December 5). *Mathematically Modeling the Processing of Conflicting Beliefs and Identity Changes* [Conference Presentation]. Midwest Christian Psychology Conference, Springfield, MO.

Deal J. J., Jensen M., Martínez F. A., Pizarro T., Chávez, C. J. J., and Holechek A. S., Ph.D. (2025, November 15). *Type 2 Diabetes Mellitus Subtypes: A Mathematical Model Assessing Cardiovascular and Kidney Risks using the All of Us Database* [Conference Presentation]. Missouri Arkansas Kansas Oklahoma Undergraduate Mathematics Research Conference, Springfield, MO.

Niccum C., Voss E. J., **Deal J. J.,** Scott N., Burns C., Obeng E. & Echols L., Ph.D. (2025, April 24). *Revising and Shortening the Co-Rumination Questionnaire* [Poster Session]. McQueary College of Health and Human Services Research Symposium, Springfield, MO.

Niccum C., Voss E. J., **Deal J. J.**, Burns C., Obeng E. & Echols L., Ph.D. (2025, March 21-22). *Revising and Shortening the Co-Rumination Questionnaire* [Conference Presentation]. Great Plains Psychology Conference, Warrensburg, MO.

- **Awarded 1st Place in the Conference**

Deal J. J., & Maskrod W. L. (2024, December 6). *Cellphones and Sleep* [Conference Presentation]. Midwest Christian Psychology Conference, Siloam Springs, AR.

MEMBERSHIP AND SERVICES

Professional Memberships

2025-Present	National Society of Leadership and Success, SBU
2023-Present	Alpha Chi National College Honors Society, SBU
2023-Present	Psi Chi: The International Honor Society in Psychology, SBU
2023-Present	Gordon & Judy Dutile Honors Program, SBU

2023-2025 Intercollegiate Studies Institute, SBU

Professional Leadership

2023-2025 Treasurer of Psi Chi: The International Honor Society in Psychology, SBU

2024-2025 Secretary Treasurer of Intercollegiate Studies Institute, SBU

2025 President of Psi Chi: The International Honor Society in Psychology, SBU

Athletic Memberships

2022-2023 Rugby Athletic Team, DU

2022-2023 Ultimate Frisbee Intramural Team, DU

2023-2025 Obstacle Course Run Club, SBU

2025 Rock Wall Club, SBU

INTERNATIONAL EXPERIENCE

Costa Rica Service-Learning Trip (3/9/25-3/15/25)

Guatemala Service-Learning Trip (3/14/26-3/21/26)

Paris Service-Learning Trip (7/06/26-7/13/2026)

CERTIFICATIONS

Foundations of Leadership Certificate
National Society of Leadership and Success
Received April 2026

Safe and Secure Certification
Internation Mission Board
Received February 2026

Orientation and Leadership Training Certificate
National Society of Leadership and Success
Received December 2025

Arizona State University REU Certificate of Achievement
Quantitative Research in the Life and Social Sciences Summer Program
Received July 2025

All of Us Certified in Responsible Conduct of Research
NIH All of Us Research Program
Valid June 2025 – June 2026

All of Us Certified in Controlled Tier Access
NIH All of Us Research Program
Valid June 2025 – June 2026

CITI Certified in Social and Behavioral Human Subjects Research
Collaborative Institutional Training Initiative
Valid August 2024 – August 2027

SKILLS

Software: Microsoft PowerPoint (proficient), Microsoft Excel (proficient), Microsoft Word (proficient), IBM SPSS (intermediate), Generative AI (intermediate), MATLAB (intermediate), Python (intermediate), Java (basic), Tableau (basic), Jamovi (basic), LaTeX (basic)

Additional Languages: Spanish (Basic)

AWARDS AND HONORS

2025	**Outstanding Computing and Mathematics Division Graduate Academic Honor, SBU** | Awarded to one graduating student majoring in the Computing and Mathematics Division
2025	**Outstanding Behavioral Sciences Division Graduate Academic Honor, SBU** | Awarded to one graduating student majoring in the Behavioral Sciences Division
2025	**Outstanding Senior in Behavioral Sciences Award, SBU** | Awarded to one senior majoring in the Behavioral Sciences Division
2025	Student Spotlight for College of Professional Programs, SBU
2025	Great Plains Psychology Conference Award (1st Place), MSU
2023-2025	Trustees' List, SBU

2022-2023 Dean's List, DU

UNDERGRADUATE SCHOLARSHIPS

2023-2025 Presidential Transfer Scholarship, SBU

2023-2025 Dutile Scholars Award, SBU

2024-2025 Johnson County Board of Services Scholarship, SBU

2022-2023 Presidential Scholarship, DU

PROFESSIONAL REFERENCES

Shelley Kilpatrick, Ph.D., Professor and Academic Advisor
Division Head of Behavioral Sciences & Professor of Psychology
Behavioral Sciences
Gott Education Center 21, Bolivar, Missouri 65613
417-328-1735 | skilpatrick@sbuniv.edu

Stephen Bowling, Ph.D., Professor, Academic Advisor and Honors Capstone Project Supervisor
Division Head & Professor of Mathematics
Gene Taylor National Free Enterprise Center 111, Bolivar, Missouri 65613
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Jordan Edwards, Ph.D., Professor and Academic Advisor
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James Sly, M.S., Assistant Professor and Honors Capstone Project Supervisor
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Susan Holecheck, Ph.D., Professor and Project Supervisor
Associate Professor of Biology
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Associate Professor of Psychology
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