

Steven Baker

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CURRENT ADDRESS

3710 Turnberry Drive
Gulf Shores, Alabama 36542

EDUCATION

University of South Alabama - Mobile, Alabama
B.S. in Mathematics, in progress
B.A. in Psychology, in progress

Expected Graduation: December 2023
Mathematics GPA: 3.90/4.00
Psychology GPA: 3.92/4.00

TECHNICAL AND ANALYTICAL SKILLS

- Python
- SQL
- R Programming
- Microsoft Excel
- Microsoft Office Collection
- Google Drive Collection
- SPSS
- Jamovi
- Minitab

RELEVANT COURSEWORK

- Financial Mathematics
- Financial Market Derivatives
- Regression Analysis
- Complex Analysis
- Calculus 1/2/3
- Differential Equations
- Probability
- Statistical Design and Analysis 1/2
- Mathematical Cyberinfrastructure
- Linear Algebra
- Statistical Applications
- Industrial Psychology

CERTIFICATIONS

- University of Michigan - Programming for Everybody
- University of Michigan - Python Data Structures
- University of Michigan - Using Python to Access Web Data

RESEARCH/WORK EXPERIENCE

Dr. Heidi Lyn Comparative Cognition Lab **Lab Manager/Research Assistant** **January 2022-Present**

- Compiled and Evaluated over 92000 data entries for comprehensive Meta-Analysis
- Oversaw and Managed 5 Comparative Research Projects
- Included in 4 Publications under review
- Oversaw a 400% increase in Publication Output
- Analyzed the effects of climate change by studying the behavior of thin striped hermit crabs
- Designed and implemented methodology to study pattern recognition in different species
- Organized Fundraising of over 1000 dollars for the Lab

Dr. Joshua Foster's Research Group **Research Assistant** **August 2021-Present**

- Performed data analysis to analyze the effects of specific personality types on facial recognition
- Analyzed data relating to Narcissism and Persuasion
- Assisted in studies involving the variability between the personalities of people, specifically those with Narcissism
- Collaborated with research in the field of visual perception

PUBLICATIONS & PRESENTATIONS

Publications

- Baker, S. & Lyn, H., "Intuitive Pattern Recognition in Dogs vs Humans, 2023 (under review)
- Baker, S. & Lyn, H., "Intuitive Pattern Recognition in Monkeys vs Humans 2023 (in preparation)
- Lyn, H., Villegas, J., Bass, C., Baker, S., West, K., "When is a point not a point", 2023 (under review)
- Lyn, H., Villegas, J., Bass, C., Baker, S., West, K., "Pointing Gestures as Communication in Dogs (Canis Familiaris)" (in preparation)

Poster Presentations

- April 2023 Conference on Comparative Cognition Baker, Melbourne Beach, FL., Baker S. & Lyn, H., "Understanding of Probabilities in Dogs vs Humans"
- July 2023 Animal Behavior Society, Portland, Oregon (Online), Baker S. & Lyn, H., "Probabilistic Determination in Dogs vs Humans"
- October 2023 South Alabama Undergraduate Symposium, Mobile, Alabama, Baker S. & Lyn, H., "Understanding of Probabilities in Monkeys vs Humans" (in preparation)

AWARDS/SCHOLARSHIPS

Academic Scholarships

- USA Provost's Scholarship for Academic Excellence
- UBGOOD Scholarship for graduating high school seniors who attended Orange Beach Elementary School
- Mark D. Fillers Scholarship - for orphans, foster children, or adopted children who display exceptional scholastic achievement
- 2023 South Alabama Summer Undergraduate Research Fellowship (SURF)