

# Brooke N. Jackson, PhD

Postdoctoral Research Associate | Comparative Intelligence and Cognition Lab  
Georgia State University, Language Research Center  
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## EDUCATION

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- 2018 – 2023    **Ph.D. in Psychology – Cognitive Sciences**  
**Georgia State University**  
Advisors: Dr. J. David Smith, Dr. Michael Beran  
Dissertation: Investigating exposure learning of family-resemblance categories
- 2018 – 2021    **M.A. in Cognitive Psychology**  
**Georgia State University**  
Advisor: Dr. J. David Smith  
Thesis: Does perceptual learning during pre-exposure effect category representation?
- 2017    **B.S. in Psychology**  
**Georgia State University**

## ACADEMIC APPOINTMENTS

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- 2023 – pres.    **Postdoctoral Research Associate, Department of Psychology & Language Research Center**  
**Georgia State University**  
Supervisor: Dr. Michael J. Beran

## FELLOWSHIPS

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- 2023 – pres.    Duane M. Rumbaugh Fellowship

## PEER-REVIEWED PUBLICATIONS

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- 2022    Church, B. A., **Jackson, B. N.**, Smith, J. D. (2022). Dissociable learning processes: A comparative perspective. In M. Krause, K. L. Hollis, & M. R. Papini (Eds.), *Evolution of Learning and Memory Mechanisms* (pp. 227-246). Cambridge University Press.
- 2021    **Jackson, B. N.**, Sanchez, A., Church, B. A., Smith, J. D. (2021). Family resemblance. In J. Vonk & T. Shackelford (Eds.), *Encyclopedia of Animal Cognition and Behavior*. Springer.
- 2021    Church, B. A., Sanchez, A., **Jackson, B. N.** (2021). Familiarity. In J. Vonk & T. Shackelford (Eds.), *Encyclopedia of Animal Cognition and Behavior*. Springer.
- 2021    Smith, J. D., Church, B. A., **Jackson, B. N.**, Sanchez, A. (2021). Categorization. In J. Vonk & T. Shackelford (Eds.), *Encyclopedia of Animal Cognition and Behavior*. Springer.

- 2021 Smith, J. D., **Jackson, B. N.**, Sanchez, A. F., & Church, B. A. (2021). The comparative study of categorization. In M. J. Beran & B. Schwartz (Eds.), *Primate Cognitive Studies* (pp. 136-160). Cambridge University Press.
- 2021 Smith, J. D., **Jackson, B. N.**, Adamczyk, M. N., & Church, B. A. (2021). Conceptual anchoring dissociates implicit and explicit category learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *48*(6), 813-823. <https://doi.org/10.1037/xlm0000856.supp>
- 2020 Smith, J. D., Church, B. A., **Jackson, B. N.**, Adamczyk, M. N., Shaw, C. N., & Beran, M. J. (2020). Launch! Self-agency as a discriminative cue for humans (*Homo sapiens*) and monkeys (*Macaca mulatta*). *Journal of Experimental Psychology: General*, *150*(9), 1901–1917. <https://doi.org/10.1037/xge0001026.supp>
- 2020 Church, B. A., **Jackson, B. N.**, & Smith, J. D. (2021). Exploring explicit learning strategies: A dissociative framework for research. *New Ideas in Psychology*, *60*. <https://doi.org/10.1016/j.newideapsych.2020.100817>
- 2020 Smith, J. D., **Jackson, B. N.**, & Church, B. A. (2020). Monkeys (*Macaca mulatta*) learn two-choice discriminations under displaced reinforcement. *Journal of Comparative Psychology*, *134*(4), 423-434. <https://doi.org/10.1037/com0000227.supp>
- 2019 Smith, J. D., **Jackson, B. N.**, Church, B.A. (2019). The cognitive architecture of uncertainty. *Animal Behavior and Cognition*, *6*(4), 236-246. <https://dx.doi.org/10.26451/abc.06.04.03.2019>
- 2019 Church, B. A., **Jackson, B. N.**, Beran, M. J., & Smith, J. D (2019). Simultaneous vs. prospective/retrospective uncertainty monitoring: The effect of response competition across cognitive levels. *Journal of Experimental Psychology: Animal Learning and Cognition*, *45*(3), 311-321. <https://dx.doi.org/10.1037/xan0000207>
- 2019 Smith, J. D., **Jackson, B. N.**, & Church, B. A. (2019). Breaking the perceptual-conceptual barrier: Relational matching and working memory. *Memory & Cognition*, *47*, 544-560. <https://dx.doi.org/10.3758/s13421-018-0890-9>

## MANUSCRIPTS UNDER REVIEW

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- (in review) **Jackson, B. N.**, Sanchez, A., Church, B. A., Smith, J. D. The role of symbols in relational conceptualization.
- (submitted) Church, B. A., Rodgers, J. D., **Jackson, B. N.**, Moppert, S., Lopata, C., Thomeer, M. L., & Mercado, E. Is atypical family-resemblance category learning in higher-functioning children with autism spectrum disorder mediated by atypical cortical plasticity?
- (submitted) Church, B. A., Rodgers, J. D., **Jackson, B. N.**, Wisniewski, M. G., Moppert, S., Lopata, C., Thomeer, M. C., Mercado, E., III. Perceptual discrimination learning in children with and without autism spectrum disorder: The effect of feedback, modality, and progressive-learning.
- (submitted) Church, B. A., Rodgers, J. D., **Jackson, B. N.**, Moppert, S., Lopata, C., Thomeer, M. C., Mercado, E., III. Family-resemblance category learning in

higher-functioning children with autism spectrum disorder: The effects of feedback and typicality order.

(in preparation) **Jackson, B. N.**, Church, B. A., Smith, J. D. Perceptual exposure benefits the learning of multiple family-resemblance categories: It's not just fluency.

#### EXTERNAL CONFERENCE PRESENTATIONS

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- 2023 **Jackson, B. N.**, Sanchez, A., Church, B. A., & Smith, J. D. (November, 2023). Can children learn visual symbols to represent relational concepts? Poster presented at the 64<sup>th</sup> Annual Meeting Psychonomic Society, San Francisco, CA.
- 2023 **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2023). New methodologies for fostering animals' explicit cognition. Poster presented at the 30<sup>th</sup> International Conference on Comparative Cognition Conference, Melbourne, FL.
- 2022 **Jackson, B. N.**, Church, B. A., & Smith, J. D. (November, 2022). Perceptual exposure benefits the learning of multiple family-resemblance categories: It's not just fluency. Poster presented at the 63<sup>rd</sup> Annual Meeting Psychonomic Society, Boston, MA.
- 2022 Church, B. A., **Jackson, B. N.**, Lane, K., Rodgers, J., Lopata, C., & Mercado III., E. (November, 2022). Visual and auditory discrimination learning in high functioning Autism Spectrum Disorder: Modality specific abnormalities in perceptual learning? Poster presented at the 63<sup>rd</sup> Annual Meeting Psychonomic Society, Boston, MA.
- 2022 **Jackson, B. N.**, Church, B. A., & Smith, J. D. (March, 2022). The effect of pre-exposure on family-resemblance categorization decisions in macaques. Poster presented at the 29<sup>th</sup> International Conference on Comparative Cognition Conference, Virtual Conference.
- 2022 **Jackson, B. N.**, Church, B. A., & Smith, J. D. (March, 2022). The effects of pre-exposure on macaques' family-resemblance categorization decisions. Poster presented at the 68<sup>th</sup> Southeastern Psychological Association, Hilton Head, SC.
- 2021 **Jackson, B. N.**, Sanchez, A., Adamczyk, M., Smith, J. D., & Church, B. A. (November, 2021). Learning symbols to declare matching relationships. Poster presented at the 62<sup>nd</sup> Annual Meeting Psychonomic Society, Virtual Conference.
- 2021 Sanchez, A., **Jackson, B. N.**, Adamczyk, M., Church, B. A., & Smith, J. D. (November, 2021). The generalizability of symbol learning by rhesus macaques. Poster presented at the 62<sup>nd</sup> Annual Meeting Psychonomic Society, Virtual Conference.
- 2021 Church, B. A., **Jackson, B. N.**, Wisniewski, M. G., Rodgers, J. D., Lopata, C., Mercado, E. (November, 2021). The effect of progressive learning on auditory perceptual learning: A child appropriate conceptual replication. Poster presented at the 62<sup>nd</sup> Annual Meeting Psychonomic Society, Virtual Conference.
- 2020 **Jackson, B. N.**, Church, B. A., & Smith, J. D. (November, 2020). Are disruptions of category learning during deferred feedback determined by

- number of relevant dimensions or difficulty of verbalization?. Poster presented at the 61<sup>st</sup> Annual Meeting Psychonomic Society, Virtual Conference.
- 2020 Church, B. A., **Jackson, B. N.**, & Mercado, E. (November, 2020). Family resemblance category learning: The effects of feedback and typicality order. Poster presented at the 61<sup>st</sup> Annual Meeting Psychonomic Society, Virtual Conference.
- 2019 **Jackson, B. N.**, Adamczyk, M. A., Church, B. A., & Smith, J. D. (November, 2019). Did I launch that?: Examining feelings of self-agency in monkeys. Poster presented at the 60<sup>th</sup> Annual Meeting Psychonomic Society, Montréal, Québec, Canada.
- 2019 Bowden, M., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (November, 2019). Instructed matching strategies: Learning symbols to guide decision making. Poster presented at the 60<sup>th</sup> Annual Meeting Psychonomic Society, Montréal, Québec, Canada.
- 2019 Church, B. A., **Jackson, B. N.**, Lopata, C., & Mercado, E. (November, 2019). Exposure versus training during family resemblance category learning by children with and without autism. Poster presented at the 60<sup>th</sup> annual meeting of the Psychonomic Society, Montreal, Quebec, Canada.
- 2019 **Jackson, B. N.**, Church, B. A., Smith, J. D. (April, 2019). Lagged Feedback: A dissociative methodology for fostering animals' explicit cognition. Talk presented at the North Georgia Regional Annual Memory Meeting, Atlanta, GA.
- 2019 Bowden, M., **Jackson, B.N.**, Shaw, C., Church, B., & Smith, J. D. (April, 2019). Instructed matching strategies: Learning Symbols to guide decision making. Talk presented at the North Georgia Regional Annual Memory Meeting, Atlanta, GA.
- 2019 **Jackson, B. N.**, Church, B. A., Smith, J. D. (April, 2019). Lagged Feedback: A dissociative methodology for fostering animals' explicit cognition. Talk presented at the 26<sup>th</sup> International Conference on Comparative Cognition Conference, Melbourne, FL.
- 2019 Bowden, M. D., **Jackson, B. N.**, Shaw, C., Church, B. A., Smith, J. D. (April, 2019). Instructed matching strategies: Learning symbols to guide decision making. Poster presented at the 26<sup>th</sup> International Conference on Comparative Cognition Conference, Melbourne, FL.
- 2019 Adamczyk, M. N., **Jackson, B. N.**, Shaw, C. N., Church, B. A., & Smith, J. D. (April, 2019). Did I launch that?: A new methodology for examining self-agency non-verbally. Poster presented at the 26<sup>th</sup> International Conference on Comparative Cognition. Melbourne, FL.
- 2018 **Jackson, B. N.**, Shaw, C. N., Beran, M. J., Church, B. A., Smith, J. D. (November, 2018). Launch!: The insightful discovery of self-agency. Poster presented at the 59<sup>th</sup> Annual Meeting Psychonomic Society, New Orleans, LA.
- 2017 Church, B. A., **Jackson, B. N.**, & Smith, J. D. (November, 2017). Breaking the perceptual-conceptual barrier: Does relational matching depend on explicit cognition. Poster presented at the 58<sup>th</sup> Annual Meeting Psychonomic Society, Vancouver, BC, Canada.

- 2017 Valteau, J. C., **Jackson, B. N.**, Church, B. A. & Smith, J. D. (March, 2017). Past, present, and future doubt: A temporal context for metacognition. Poster presented at 63<sup>rd</sup> Annual Meeting of the Southeastern Psychological Association, Atlanta, GA.

#### INTERNAL CONFERENCE PRESENTATIONS

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*\*denotes mentored student presentations*

- 2023 Ferguson, A., Sudhakar, M., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2023). The impact of symbolic representation on category learning in children and adults. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2023 Ramos, L., Lopes, R., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2023). Visual and auditory perceptual learning in children with high-functioning autism spectrum disorder. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2023 Taylor, A., Smith, B. A., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2023). Can atypical category learning in children with high-functioning autism spectrum disorder be improved? Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2023 **Jackson, B. N.**, Church, B. A., & Smith, J. D. (March, 2023). New methodologies for fostering animals' explicit cognition. Talk presented at Hard Data Café Georgia State University, Atlanta, GA.
- 2022 Ramos, L., Lane, K., Shah, R., Taylor, A., **Jackson, B. N.**, Church, B. A. (November, 2022). Visual and auditory perceptual learning in children with high functioning Autism Spectrum Disorder. Talk presented at the Psychology of Undergraduate Research Conference, Atlanta, GA.\*
- 2022 Carpenter, D., Ferguson, A., Mourshed, A., **Jackson, B. N.**, Church, B. A., Smith, J. D. (April, 2022). Can perceptual learning help the learning of multiple family resemblance categories? Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2022 Lane, K., Smith, B. A., Ramos, L., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2022). Investigating visual and auditory discrimination in children with high functioning autism spectrum disorder. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2021 Gomez-Duque, G., **Jackson, B. N.**, Lane, K., Church, B. A., Smith, J. D. (April, 2021). Family resemblance category learning in children with and without autism spectrum disorder: The effects of feedback and order of typicality. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2021 Carpenter, D., Smith, B. A., **Jackson, B. N.**, Adamczyk, M. N., Church, B. A., Smith, J. D. Is category learning during deferred feedback disrupted by number of dimensions or verbalizability? (November, 2020). Poster presented at the Psychology of Undergraduate Research Conference, Atlanta, GA.\*
- 2020 Adamczyk, M. N., Sanchez, A., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2020). Rhesus macaques learn two-choice discriminations with displaced reinforcement. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*

- 2020 Carpenter, D., Lisenba, A., McDaniel, T., Jackson, G., Medina, L., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2020). The effects of feedback and stimuli presentation order on family resemblance category learning. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2020 Gomez-Duque, G., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2020) Using deferred feedback to distinguish implicit and explicit learning: Exclusive XOR tasks and conceptual framing. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2020 Medina, L., Jackson, G., Abdulkadir, A., McDaniel, T., Lisenba, A., Carpenter, D., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2020). Age differences in learning symbols to declare matching relationships. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2020 Sanchez, A., Adamczyk, M. N., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2020). Does rule information shut down implicit learning?. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2020 Smith, B. A., Adamczyk, M. N., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2020). Using exclusive-or categorization tasks to distinguish implicit and explicit learning processes. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2019 Medina, L., Abdulkadir, A., Carpenter, D., Ibreak, H., Schmidt, S., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (October, 2019). Learning symbols to declare matching relations between two stimuli. Poster presented at the Psychology of Undergraduate Research Conference, Atlanta, GA.\*
- 2019 Sanchez, A., Adamczyk, M. N., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (October, 2019). Does information shut down implicit learning? Poster presented at the Psychology of Undergraduate Research Conference, Atlanta, GA.\*
- 2019 Smith, B. A., Gomez-Duque, G., Adamczyk, M. N., Marshall, L., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (October, 2019). Learning conjunctive rules with deferred feedback. Poster presented at the Psychology of Undergraduate Research Conference, Atlanta, GA.\*
- 2019 Adamczyk, M. N., Smith, B., Sanchez, A., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (October, 2019). Launch! Detecting attributes of self agency in monkeys. Poster presented at the Psychology of Undergraduate Research Conference, Atlanta, GA.\*
- 2019 **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2019). Lagged Feedback: A dissociative methodology for fostering animals' explicit cognition. Talk presented at Hard Data Café Georgia State University, Atlanta, GA.
- 2019 Adamczyk, M. N., **Jackson, B.N.**, Shaw, C. N., Church, B.A., & Smith, J. D. (April, 2019). Did I launch that?: A new methodology for examining self-agency nonverbally. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2019 Sanchez, A., Guelfo, A., **Jackson B. N.**, Church, B. A., & Smith, J. D. (April, 2019). Learning symbols to declare different kinds of relations. Poster

- presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2019 Guelfo, A. M., Carter, H. N., Adamczyk, M. N., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2019). A simple symbol system for exploring humans' attention and declarative cognition. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2019 Asani, N., Carter, H., Branch, K., Street, O., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2019). The development of symbol learning abilities in young children. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.\*
- 2018 Adamczyk, M. N., Jones, J. M., Carter, C. N., Church, B. A., **Jackson, B. N.**, & Smith, J. D. (October, 2018). The importance of working memory in crossing the perceptual-conceptual barrier. Poster presented at the Psychology of Undergraduate Research Conference, Atlanta, GA.\*
- 2018 Sanchez, A., Street, O., Carter, H., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (October, 2018). What's the relationship between awareness of self-agency and uncertainty monitoring? Poster presented at the Psychology of Undergraduate Research Conference, Atlanta, GA.\*
- 2018 **Jackson, B. N.**, Church, B. A., & Smith, J. D. (April, 2018). The importance of working-memory to relational matching. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.
- 2017 **Jackson, B. N.**, Church, B. A., & Smith, J. D. (October, 2017). Working-memory interference devastates relational matching. Poster presented at the Psychology of Undergraduate Research Conference, Atlanta, GA.
- 2017 Harris, H., Valdez, G., **Jackson, B. N.**, Church, B. A., & Smith, J. D. (October, 2017). Competition between implicit and explicit category learning: Does it interfere with encoding or category decision? Poster presented at the Psychology Undergraduate Research Conference, Atlanta, GA.
- 2017 **Jackson, B. N.**, Roberts, A. D., Valleau, J. C., Church, B. A. & Smith, J. D. (April, 2017). Distancing metacognitive and perceptual responses: Does separation improve judgment. Poster presented at the Georgia State Undergraduate Research Conference, Atlanta, GA.

## RESEARCH EXPERIENCE

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- 2023 – pres. **Language Research Center – Atlanta, GA**  
 Postdoctoral Researcher, COMIC Lab  
 Georgia State University
- 2016 – 2023 **Language Research Center – Atlanta, GA**  
 Graduate Student, Complex Cognition Lab  
 Department of Psychology, Georgia State University
- 2016 – 2023 **SUCCESS Lab – Atlanta, GA**  
 Graduate Student  
 Department of Psychology, Georgia State University

## TEACHING AND MENTORING

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*Instructor of Record* – Georgia State University

- Fall 2023 Psychology of Animal Behavior (PSYC 4560)  
Spring 2023 Introduction to Research Design & Analysis (PSYC 3510) (online)  
Fall 2022 Introduction to BioPsychology (PSYC 1100)  
Spring 2022 Introduction to BioPsychology (PSYC 1100) (online)

*Teaching Assistant* – Georgia State University

- Fall 2021 Advanced Research Design & Analysis (PSYC 3530)  
Spring 2021 Advanced Research Design & Analysis (PSYC 3530)  
Fall 2020 Advanced Research Design & Analysis (PSYC 3530)  
Spring 2020 Advanced Research Design & Analysis (PSYC 3530)  
Fall 2019 Introduction to Research Design & Analysis (PSYC 3510)  
Fall 2019 Introduction to Drugs & Behavior (PSYC 2050)  
Spring 2019 Introduction to BioPsychology (PSYC 1100)  
Spring 2019 Introduction to General Psychology (PSYC 1101)  
Fall 2018 Introduction to General Psychology (PSYC 1101)  
Fall 2018 Psychopathology & Abnormal Psychology (PSYC 3140)

*Mentored Undergraduate Students/Research Assistants*

- 2023 Mari Sudhakar, Psychology Undergraduate Program, GSU  
2023 Rafaella Lopes, Psychology Undergraduate Program, GSU  
2022-2023 Alecia Ferguson, Pre-Med Undergraduate Program, GSU  
2022-2023 Liliana Ramos, Pre-Med Undergraduate Program, GSU  
2022-2023 Annissa Taylor, Pre-Med Undergraduate Program, GSU  
2020-2023 Kay Lane, Neuroscience Undergraduate Program, GSU  
2019-2023 Brenna Smith, Neuroscience Undergraduate Program, GSU  
2018-2020 Devaki Carpenter, Neuroscience Undergraduate Program, GSU  
2018-2021 Markie Adamczyk, Neuroscience Undergraduate Program, GSU  
2018-2020 Andres Sanchez, Psychology Undergraduate Program, GSU

**PROFESSIONAL AFFILIATIONS**

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- 2017 – pres. Psychonomic Society  
2017 – 2023 Southeastern Psychological Association  
2018 – pres. American Psychological Association  
2019 – pres. Comparative Cognition Society

**SKILLS, ACTIVITIES & INTERESTS**

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**Technical Skills:** Python programming language, PsychoPy programming language, Turbo Pascal programming language, SPSS, Adobe Photoshop, Microsoft Office (including extensive Excel experience)