**Joseph Schmidt, Ph.D.**

Curriculum Vitae

October, 2023

**Mailing Address:**

Joseph Schmidt, Ph.D.

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[Joseph.Schmidt@ucf.edu](mailto:Joseph.Schmidt@ucf.edu)

**Professional Experience**

**Associate Professor,** 2021 – Present

University of Central Florida, Department of Psychology

**Assistant Professor,** 2015 – 2021

University of Central Florida, Department of Psychology

**Research Support Specialist,** 2014 – 2015

SR Research Ltd.

**Postdoctoral Research Fellow,** 2012 - 2014

Advisor: John M. Henderson

[Visual Cognition Lab](http://www.jhenderson.org/vclab/Lab.html)oratory

*Institute for Mind and Brain, & Department of Psychology, University of South Carolina*

**EDUCATION**

**Ph.D. in Experimental / Cognitive Psychology,** 2012

Dissertation: **Relational information between objects is available to guide search.**

(Advisor: Gregory J. Zelinsky)

Stony Brook University

**M.A. in Psychology,** 2008

Thesis: **Visual search guidance is best after a short delay**

(Advisor: Gregory J. Zelinsky)

Stony Brook University

**B.A. in Psychology (Magna cum Laude),** 2005

Stony Brook University

**RESEARCH FOCUS & TECHNIQUES**

**Techniques: Eye Tracking, Event-Related Potentials (ERP), Functional Magnetic Resonance Imaging** (fMRI), and the Co-Registration of Eye Tracking with ERP or fMRI

**Research (Areas): Visual Cognition, Sensation and Perception, Attention, Memory, and Oculomotor Control**

**Research (Specific): My research** **focuses on the interaction of memory and attention. I have investigated how memory for visually complex, real-world objects and scenes impacts our eye movements and, thus, our allocation of attention as we interact with the world. Likewise, I have also investigated how our eye movements affect our memory for objects and scenes. By integrating eye tracking with ERP or fMRI, I have investigated the behavioral, oculomotor, and neural instantiations of visual working memory, long-term memory, and attentional processes.** By better understanding **how memory representations interact with attentional processes**, I hope to gain insight into how these processes are integrated into our broader cognitive function.

**FUNDING**

\* indicates significant direct supervision

**Awarded**

**Schmidt, J.** (2020- Q2) Unrestricted funds to support scholarly activities from Intel. Awarded budget: $10,000, Credit: 100%

**Schmidt, J.** (2020- Q1) Unrestricted funds to support scholarly activities from Intel. Awarded budget: $10,000, Credit: 100%

**Schmidt, J.** (2019- Q4) Unrestricted funds to support scholarly activities from Intel. Awarded budget: $10,000, Credit: 100%

Neider, M. B., et al. (2018) Building laboratories without limits: brining behavioral and neurophysiological measurement to real and virtual environments. DOD. Role: Co-PI, Awarded budget: $599,402, Credit: ~14%

**Schmidt, J.**, Bohil, C. J., & Neider, M. B. (2018) Separate learning systems and decision bias in categorical visual. NIH:NEI. Role: PI, Awarded budget: $397,851, Credit: 33.34% credit

Schmidt, J. (2017) Awarded Scholarship to attend the Event-Related Potentials (ERPs) boot camp. Funding included travel, lodging, & food. Approximate award value: ~$4000, Credit: 100%

**Student Funding**

**Awarded**

\*Adamo, S., Mello-Thoms, C. R., & **Schmidt, J.**, (2022) Cognitive Science to Radiology: Using EEG and Eye-Tracking to Determine How, Why, and When Novices and Radiologists Miss Signs of Breast Cancer in Multiple Abnormality Mammography and Tomosynthesis. NIH:NCI – K99/R00. Role: Lead mentor, year one budget of $125,299 with the remaining four years to be determined based on Postdoc/Faculty position. Proposed budget: $1,027,800– 0 monetary credit, lead mentor on the award

\*Adamo, S., **Schmidt, J.**, & Neider, M. B. (2019) Target template and subsequent search misses: The underlying mechanism of multiple-target search errors. NSF SBE SPRF (BP). Role: Lead mentor, Awarded budget: $165,000 ($138,000 original, $27,000 COVID supplemental), Credit: 0 monetary, lead mentor on the award

\*Adamo, S., & **Schmidt, J.** (2018) Tomosynthesis and Subsequent Search Misses: The Effects of segmented-30 search on Multiple Target Errors. UCF P3 award to support post-doctorate research. Role: Mentor, Awarded budget $34,000, Credit: 0 monetary, lead mentor on the award

**Personal**

**Awarded**

**Schmidt, J.** (2020) Categorical Search Following Explicit or Implicit Rule Learning. National Institute of Health: Loan Repayment Program (NIH:LRP), Awarded budget: $100,000

**Consulting**

**Awarded**

2018 Served as an eye-tracking consultant to assist with remote instruction of eye movement programming, analysis and study implementation PI: Jessica Klusek, Assistant Professor at the University of South Carolina. Awarded: $8,568

2022 Listed as a consultant on a NIH:NIA R01, titled “Aging Symptom Trajectories in Mother Carriers of the FMR1 Premutation: Stability, Functional Limitations, and Autonomic and Genetic Factors” PI Dr. Klusek, University of South Carolina. Awarded: $25,000 over five years.

**PUBLICATIONS (Refereed journal articles)**

\* indicates significant direct supervision

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| 31. | Bohil, C. J., Phelps, A., Neider, M. B., & **Schmidt, J.** (2023). Explicit and implicit category learning in categorical visual search. *Attention, Perception, & Psychophysics*, 1-19. <https://doi.org/10.3758/s13414-023-02789-z> |
| 30. | Adamo, S. H., Roque, N., Barufaldi, B., **Schmidt, J.**, Mello-Thoms, C., & Lago, M. (2023). Assessing satisfaction of search in virtual mammograms for experienced and novice searchers. *Journal of Medical Imaging*, *10*(S1), S11917-S11917. <https://doi.org/10.1117/1.JMI.10.S1.S11917> |
| 29. | \* Miuccio, M. T., Zelinsky, G. J., & **Schmidt, J.** (2022). Are all real‐world objects created equal? Estimating the “set‐size” of the search target in visual working memory. *Psychophysiology*, *59*(4), e13998. <https://doi.org/10.1111/psyp.13998> Impact factor: 4.016 |
| 28. | \* Phelps, A. M., Alexander, R. G., & **Schmidt, J.** (2022). Negative cues minimize visual search specificity effects. *Vision Research*, *196*, 108030. <https://doi.org/10.1016/j.visres.2022.108030> Impact factor: 1.886 |
| 27. | \*Adamo, S. H., Gereke, B., Shomstein, S, & **Schmidt, J.** (2021) From “Satisfaction of Search” to “Subsequent Search Misses”: A review of multiple-target search errors across radiology and cognitive science. *Cognitive Research: Principles and Implications 6* https://doi.org/10.1186/s41235-021-00318-w Impact factor: 4.079 |
| 26. | Salgari, G. C., Potts, G. F., **Schmidt, J.**, Chan, C. C., Spencer, C. C., & Bedwell, J. S. (2021) Event-Related Potentials to Rare Visual Targets and Negative Symptom Severity in a Transdiagnostic Psychiatric Sample. *Clinical Neurophysiology*. https://doi.org/10.1016/j.clinph.2021.02.398 Impact factor: 3.708 |
| 25. | Moser, C., Schmitt, L., **Schmidt, J.**, Fairchild, A., & Klusek, J. (2021) Response Inhibition Deficits in Women with the FMR1 Premutation are Associated with Age and Fall Risk. *Brain and Cognition*. https://doi.org/10.1016/j.bandc.2020.105675 Impact factor: 2.31 |
| 24. | \*Ercolino, A. M., Patel, P., Bohil, C. J., Neider, M. B., & **Schmidt, J.** (2020) Target specificity improves search, but how universal is the benefit? *Attention, Perception, & Psychophysics*. https://doi.org/10.3758/s13414-020-02111-1 Impact factor: 2.199 |
| 23. | Palazzo, S., Spampinato, C., Kavasidis, I., Giordano, D., **Schmidt, J.,** & Shah, M. (2020) Decoding Brain Representations by Multimodal Learning of Neural Activity and Visual Features. *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)*. https://doi.org/10.1109/TPAMI.2020.2995909 Impact factor: 16.389 |
| 22. | Kelleher, B. L., Hogan, A. L., Ezell, J., Caravella, K., **Schmidt, J.**, Wang, Q., and Roberts, J. E. (2020) Anxiety and threat‐related attentional biases in adolescents with fragile X syndrome. *Journal of Intellectual Disability Research*, 64: 296– 302. <https://doi.org/10.1111/jir.12715> Impact factor: 2.424 |
| 21. | Palazzo, S., Spampinato, C., **Schmidt, J.**, Kavasidis, I., Giordano, D., & Shah, M. (2020). Correct block-design experiments mitigate temporal correlation bias in EEG classification. *arXiv preprint arXiv:2012.03849*. <https://arxiv.org/pdf/2012.03849.pdf> |
| 20. | MacDonald, J., **Schmidt, J**., & Hout, M. (2019). A greedy algorithm for the construction of minimum-length incomplete block designs. *Behavior Research Methods* *https://doi.org/10.3758/s13428-019-01326-x* Impact factor: 6.242 |
| 19. | Klusek, J., Moser, C., **Schmidt, J.,** Abbeduto, L., & Roberts, J.E. (2019) A Novel Eye Tracking Paradigm for Tapping Social Avoidance-Related Phenotypes in Fragile X Syndrome. *American Journal of Medical Genetics, Neuropsychiatric Genetics Part B 183(1),* 5-16 *doi: <https://doi.org/10.1002/ajmg.b.32757>* Impact factor: 3.568 |
| 18. | \*Smith, K.G., **Schmidt, J.**, Wang, B., Henderson, J.M., & Fridriksson, J. (2018). Task-Related Differences in Eye Movements in Individuals with Aphasia. *Frontiers in Psychology.* *9:2430 doi: <https://doi.org/10.3389/fpsyg.2018.02430>* Impact factor: 2.990 |
| 17. | Bedwell, J.S., Spencer, C.C., Chan, C.C., Butler, P.D., Sehatpour, P., & **Schmidt, J.** (2018). The P1 visual-evoked potential, red light, and transdiagnostic psychiatric symptoms. *Brain Research. 1687,* 144-154. *doi: <https://doi.org/10.1016/j.brainres.2018.03.002>* Impact factor: 3.252 |
| 16. | Henderson, J. M., Choi, W., Luke, S. G., & **Schmidt, J.** (2018) Neural correlates of individual differences in fixation duration during natural reading. *The Quarterly Journal of Experimental Psychology, 71(1),* 314-323. *doi:* *<https://doi.org/10.1080/17470218.2017.1329322>* Impact factor: 2.143 |
| 15. | Klusek, J., **Schmidt, J.,** Fairchild, A.J., Porter, A., & Roberts, J.E. (2017). Altered Sensitivity to Social Gaze in the FMR1 Premutation and Pragmatic Language Competence. *Journal of Neurodevelopmental Disorders, 9(1), 31. doi:* *<https://doi.org/10.1186/s11689-017-9211-z>* Impact factor: 4.639 |
| 14. | **Schmidt, J.**, & Zelinsky, G. J. (2017) Adding details to an attentional template offsets search difficulty: Evidence from Contralateral Delay Activity. *Journal of Experimental Psychology: Human Perception and Performance, 43*(3), 429-437 doi: <https://doi.org/10.1037/xhp0000367> Impact factor: 3.332 |
| 13. | Ferri, J., **Schmidt, J.**, Proudfit, G. H., & Canli, T. (2016) Emotion regulation and amygdala-precuneus connectivity: Focusing on attentional deployment. *Cognitive, Affective & Behavioral Neuroscience, 16*, 991–1002. doi: <https://doi.org/10.3758/s13415-016-0447-y> Impact factor: 3.282 |
| 12. | Kardan, O., Berman, M. G., Yourganov, G., **Schmidt, J.**, Henderson, J. M. (2015) Classifying Mental States From Eye Movements During Scene Viewing *Journal of Experimental Psychology: Human Perception and Performance*, *41*(6), 1502-1514. doi: <https://doi.org/10.1037/a0039673> Impact factor: 3.332 |
| 11. | Luke, S. G., Smith, T. J., **Schmidt, J.,** & Henderson J. M. (2014) Dissociating temporal inhibition of return and saccadic momentum across multiple eye-movement tasks. *Journal of Vision*, *14*(9). doi: <https://doi.org/10.1167/14.14.9> |
| 10. | Alexander, R. G., **Schmidt, J.**, & Zelinsky, G. J. (2014). Are summary statistics enough? Evidence for the importance of shape in guiding visual search. *Visual Cognition, 22*(3-4), 595-609. doi: <https://doi.org/10.1080/13506285.2014.890989> |
| 9. | Henderson, J. M., Olejarczyk, J., Luke, S. G., & **Schmidt, J.** (2014). Eye movement control during scene viewing: Immediate degradation and enhancement effects of spatial frequency filtering. *Visual Cognition, 22*(3-4), 486-502. doi: <https://doi.org/10.1080/13506285.2014.897662> |
| 8. | **Schmidt, J.,** MacNamara, A., Proudfit, G. H., & Zelinsky, G. J. (2014). More target features in visual working memory leads to poorer search guidance: Evidence from contralateral delay activity. *Journal of Vision, 14*(3):8, 1–19. doi: <https://doi.org/10.1167/14.3.8>. |
| 7. | Luke, S. G., **Schmidt, J.**, & Henderson, J. M. (2013). Temporal Oculomotor Inhibition of Return and Spatial Facilitation of Return in a Visual Encoding Task. *Frontiers in Psychology, 4*. doi: <https://doi.org/10.3389/fpsyg.2013.00400> |
| 6. | Henderson, J. M., Luke, S. G., **Schmidt, J.**, & Richards, J. E. (2013). Co-registration of Eye Movements and Event-Related Potentials in Connected-Text Paragraph Reading. *Frontiers in Systems Neuroscience, 7*. doi: <https://doi.org/10.3389/fnsys.2013.00028> |
| 5. | Ferri, J., **Schmidt, J.**, Hajcak, G., & Canli, T. (2013). Neural correlates of attentional deployment within unpleasant pictures. *NeuroImage, 70*(0), 268-277. doi: <https://doi.org/10.1016/j.neuroimage.2012.12.030> |
| 4. | Macnamara, A., **Schmidt, J.**, Zelinsky, G. J., & Hajcak, G. (2012). Electrocortical and ocular indices of attention to fearful and neutral faces presented under high and low working memory load. *Biol Psychol, 91*(3), 349-356. doi: <https://doi.org/10.1016/j.biopsycho.2012.08.005> |
| 3. | **Schmidt, J.**, & Zelinsky, G. J. (2011). Visual search guidance is best after a short delay. *Vision Research, 51*(6), 535-545. doi: <https://doi.org/10.1016/j.visres.2011.01.013> |
| 2. | **Schmidt, J.**, & Zelinsky, G. J. (2009). Search guidance is proportional to the categorical specificity of a target cue. *The Quarterly Journal of Experimental Psychology, 62*(10), 1904-1914. doi: <https://doi.org/10.1080/17470210902853530> |
| 1. | Zelinsky, G. J., & **Schmidt, J.** (2009). An effect of referential scene constraint on search implies scene segmentation. *Visual Cognition, 17*(6-7), 1004-1028. doi: <https://doi.org/10.1080/13506280902764315> |

**PUBLICATIONS UNDER REVIEW / IN PREPARATION (Refereed journal publications)**

\* indicates significant direct supervision

“In revision” indicates we are currently working on edits to accommodate a revise and resubmit judgement from the noted journal

“Under review” indicates currently in the review process

“In preparation” indicates a working draft of the manuscript which should be submitted in the near future

\*Ford, S., Zelinsky, G. J., & **Schmidt, J.** (submitted) The relative arrangement of objects is able to guide search.

Bohil, C. J., Phelps, A. M., Neider, M. B., Schmidt, J. (in revision) Explicit and implicit category learning in categorical visual search. *Attention, Perception, & Psychophysics*.

\*Paquette, N. A., & **Schmidt, J.** (in revision) How Expectations Alter Search Performance. *Attention, Perception, & Psychophysics*.

\*Ford, S., Zelinsky, G. J., & **Schmidt, J.** (in preparation) Functionally related objects capture attention and improve search performance.

**Schmidt, J.**, Olejarczyk, J., Luke, S. G., Brixius, W., & Henderson, J. M. (in preparation) Insensitivity to changes in spatiotemporal continuity when watching video.

\*Smith, K.G., **Schmidt, J.**, Henderson, J.M., & Fridriksson, J. (in preparation). Eye Movements of Individuals with Aphasia During Reading and Pseudo-Reading

**PRESENTATIONS (****Refereed talks and posters)**

\* indicates significant direct supervision

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| 57. | Bohil, C. J., Phelps, A. M., Neider, M. B., **Schmidt, J.** (2022) Evidence of Separate Learning System Contributions in Categorical Visual Search. *Journal of Vision Presentation at Vision Science Society* |
| 56. | \*Ford, S., Zelinsky, G., & **Schmidt, J.**  (2022) Functionally Related Objects Capture Attention and Guide Search. *Journal of Vision Talk at Vision Science Society* |
| 55. | \*Ford, S., Zelinsky, G., & **Schmidt, J.**  (2021) Search Guidance From the Relative Arrangement Between Objects. *Journal of Vision Presentation at Vision Science Society – virtual presentation* |
| 54. | \*Miuccio, M., Zelinsky, G., & **Schmidt, J.** (2021) Proto-objects are a good approximation of set-size in real-world objects, evidence from contralateral delay activity and eye movements during visual search. *Journal of Vision Presentation at Vision Science Society – virtual presentation* |
| 53. | \*Paquette, N. A., & **Schmidt, J.** (2021) How Do Expectations of the Upcoming Search Alter Search Performance? *Journal of Vision Presentation at Vision Science Society – virtual presentation* |
| 52. | \*Paquette, N. A., & **Schmidt, J.** (2020) An Assessment of Target Cuing Methods on Search Difficulty Effects. *Presentation at the annual Psychonomics conference* |
| 51. | \*Paquette, N. A., & **Schmidt, J.** (2020) Increased Search Difficulty and Visual Working Memory Load: An Assessment of the Contralateral Delay Activity. *Presentation at Object Perception, Attention, and Memory (OPAM)* |
| 50. | \*Ercolino, A. M., Killingsworth, C. D., Bohil, C. J., Neider, M. B., & **Schmidt, J.** (2020) Category Rule Learning Transfers to Target Verification but Often Fails to Transfer to Search Guidance. *Journal of Vision Presentation at Vision Science Society* – virtual presentation |
| 49. | \*Miuccio, M., Piercey, C., & **Schmidt, J.** (2020) Are target representations affected by search prevalence rates? *Journal of Vision Presentation at Vision Science Society* – virtual presentation |
| 48. | \* Paquette, N. A., & **Schmidt, J.** (2020) How Does Expected Search Difficulty Affect Target Template Generation and Search Performance? *Journal of Vision Presentation at Vision Science Society* – virtual presentation |
| 47. | \*Paquette, N. A., & **Schmidt, J.** (2019) Expected Task Difficulty Effects on Visual Search Behavior during Simple and Real-World Search Tasks. *Presentation at Object Perception, Attention, and Memory (OPAM)* |
| 46. | \*Paquette, N. A., Bohil, C. J., & **Schmidt, J.** (2019) Effects of Actual versus Expected Task Difficulty on Search Behavior. *Presentation at the annual Psychonomics conference* |
| 45. | \* Ercolino, A. M. & **Schmidt, J.** (2019) Category Repetition Reduces the Reliance on Visual Working Memory as Measured by Contralateral Delay Activity *Journal of Vision Presentation at Vision Science Society* |
| 44. | Killingsworth, C. D., Ercolino, A. M., **Schmidt, J.,** Neider, M. B., & Bohil, C. J. (2019) The effects of information integration on categorical visual search *Journal of Vision Presentation at Vision Science Society* |
| 43. | Robbins, A., Scherer, K., Sabic, E., MacDonald, J., Ercolino, A. M., **Schmidt, J.** & Hout, M. C. (2019) Using Multidimensional Scaling to Quantify Category Heterogeneity Effects in Visual Search *Journal of Vision Presentation at Vision Science Society* |
| 42. | \*Lopez, S. D., Ercolino, A. M. & **Schmidt, J.** (2019) Examining the Utility of Negative Search Cues with Real-World Object Categories *Journal of Vision Presentation at Vision Science Society* |
| 41. | \*Miuccio, M., & **Schmidt, J.** (2019) Using Metacognition to Predict Search Performance *Journal of Vision Presentation at Vision Science Society* |
| 40. | Robbins, A., MacDonald, J., Ercolino, A., **Schmidt, J.**, Sabic, E., & Hout, M.C. (2019). The Pictures by Category and Similarity (PICS) Database: A database of 1200 pictures from 20 object categories rated for similarity using multidimensional scaling. Poster to be presented at the APS Convention in Washington D.C. (May 2019) |
| 39. | \*Ercolino, A.M., & **Schmidt, J.** (2018) Target Category Repetition Reduces the Reliance on Visual Working Memory as Measured by Contralateral Delay Activity. *Journal of Vision Presentation at Vision Science Society* |
| 38. | Fernandez, K. N., **Schmidt, J.**, Kuhnen, C., & Lighthall, N. (2018) Predictors of Bias: Roles of Attention and Estimation Frame Incongruence. *Presentation at the Southeastern Psychological Association* |
| 37. | Fernandez, K. N., **Schmidt, J.**, Kuhnen, C., & Lighthall, N. (2018) Attentional Differences and Estimation Frame Incongruence Predict Bias in Economic Judgments. *25th Annual Meeting of the Cognitive Neuroscience Society* |
| 36. | Klusek, J., Moser, C., **Schmidt, J.**, Abbeduto, L., & Roberts, J.E. (2018) A novel eye tracking paradigm for indexing core social phenotypes of fragile X syndrome. *51st Gatlinburg Conference on Research in Developmental Disabilities.* San Diego, CA. |
| 35. | Fernandez, K. N., Merz, M., Kuhnen, C., **Schmidt, J.**, & Lighthall, N. (2017) Gain/loss framing effects on economic decision making investigated with eye tracking. *Annual Meeting of the Human Factors and Ergonomics Society* |
| 34. | Patel, P., Ercolino , A.M., Neider, M.B., **Schmidt, J.,** & Bohil, C.J. (2017) Visual Search Following Category Rule Training. *Presentation at Psychonomics Society 58th Annual Meeting* |
| 33. | Bedwell, J.S., Spencer, C.C., Chan, C.C., Butler, P.D., Sehatpour, P., **Schmidt, J.** (2017) The P1 Visual-Evoked Potential and Transdiagnostic Psychiatric Symptoms. *31st annual meeting of the Society for Research in Psychopathology* |
| 32. | \*Ercolino, A.M., Patel, P., Bohil, C.J., Neider, M.B., & **Schmidt, J.** (2017) Comparing Visual Search For Categories Defined With An Explicit Versus Implicit Rule. *Journal of Vision Presentation at Vision Science Society 17(10)*. doi:10.1167/17.10.1123 |
| 31. | **Schmidt, J.,** & Zelinsky, G. J. (2016) Expected visual search difficulty modulates the target representation. *Journal of Vision Presentation at Vision Science Society* 16(12). doi:10.1167/16.12.1286 |
| 30. | Klusek, J., **Schmidt, J.**, Porter, A., & Roberts, J.E. (2016, May). Cardiac vagal tone predicts eye gaze fixation in the broad autism phenotype.Poster presented at the *International Meeting for Autism Research*, Baltimore, MD. |
| 29. | Schworer, E., Klusek, J., Hahn, L. J., **Schmidt, J.**, & Roberts, J. E. (2015). Anxiety and eye gaze in males with fragile X. *Gatlinburg Conference on Research in Developmental Disabilities*, New Orleans, LA., March |
| 28. | Klusek, J., **Schmidt, J.**, Porter, A., & Roberts, J. E. (2015) Pragmatic language ability in the FMR1 premutation is associated with autonomic reactivity and viewing patterns during gaze processing. *2nd International Conference on the FMR1 Premutation: Basic Mechanisms and Clinical Involvement*, Barcelona, Spain, September |
| 27. | \*Smith, K. G., **Schmidt, J.**, Henderson, J.M., Fridriksson, J. (2014). Eye Movements are Not Task Specific in Individuals with Aphasia. *Clinical Aphasiology Conference*, St. Simons Island, GA. |
| 26. | **Schmidt, J.**, Olejarczyk, J., Luke, S. G., Brixius, W., & Henderson, J. M. (2014). Insensitivity to changes in spatiotemporal continuity when watching video. *Journal of Vision Presentation at Vision Science Society 14(10)*:610-610. doi: 10.1167/14.10.610 |
| 25. | \*Brixius, W., **Schmidt, J.**, Luke, S. G., Rorden., C., & Henderson, J. M. (2014) Neural correlates of trans-saccadic change detection and change blindness in response to global contrast changes. *Journal of Vision Presentation at Vision Science Society* 14(10):613-613. doi: 10.1167/14.10.613 |
| 24. | Luke, S. G., Smith, T. J., **Schmidt, J.**, & Henderson, J. M. (2014). Temporal Oculomotor Inhibition of Return and Spatial Facilitation of Return in a Visual Encoding Task. *Journal of Vision Presentation at Vision Science Society 14(10)*:202-202. doi: 10.1167/14.10.202 |
| 23. | \*Smith, K. G., **Schmidt, J.**, Henderson, J.M., Fridriksson, J. (2014). Characterizing Alexia and Aphasia: An Eye Tracking Study. Characterizing Alexia and Aphasia: An Eye Tracking Study.*,* Williamsburg, VA. |
| 22. | \*Smith, K.G., **Schmidt, J.**, Henderson, J.M., Fridriksson, J. (2014). Characterizing Alexia and Aphasia Using Eye Movements. *Annual convention of the American Speech-Language-Hearing Association*, Orlando, FL. |
| 21. | \*Smith, K. G., **Schmidt, J.,** Henderson, J. M., & Fridriksson, J. (2013). Characterizing Aphasia and Alexia Using Eye Movements. *The 5th Annual Society for the Neurobiology of Language Conference,* San Diego, CA |
| 20. | **Schmidt, J.**, Luke, S. G., Henderson, J. M., & Richards, J. E. (2013). Co-registration of eye movements and event-related potentials in connected-text paragraph reading. *The 53rd Annual Meeting of the Society for Psychophysiological Research (SPR),* Florence, Italy. October |
| 19. | Ferri, J., **Schmidt, J.**, Hajcak, G., & Canli, T. (2013). Neural marker of emotional processing and attentional deployment. *The 53rd Annual Meeting of the Society for Psychophysiological Research (SPR)*, Florence, Italy, October |
| 18. | Luke, S. G., **Schmidt, J.**, & Henderson, J. M. (2013). Temporal Oculomotor Inhibition of Return and Spatial Facilitation of Return in a Visual Encoding Task. *Journal of Vision Presentation at Vision Science Society, 13*(9), 921. doi: 10.1167/13.9.921 |
| 17. | \*Olejarczyk, J., Luke, S. G., **Schmidt, J.**, & Henderson, J. M. (2013). Effects of spatial frequency on fixation durations within scenes. *Journal of Vision Presentation at Vision Science Society, 13*(9), 1209. doi: 10.1167/13.9.1209 |
| 16. | **Schmidt, J.**, Luke, S. G., Richards, J. E., & Henderson, J. M. (2013). Co-registration of eye movements and event-related potentials in reading. *Journal of Vision Presentation at Vision Science Society, 13*(9), 795. doi: 10.1167/13.9.795 |
| 15. | Henderson, J. M., Luke, S. G., **Schmidt, J.**, & Richards, J. E. (2012) Co-registration of Eye Movements and ERPs in Normal and Mindless Reading. *The 4th Annual Society for the Neurobiology of Language Conference,* San Sebastian, Spain |
| 14. | Huang, A. S., **Schmidt, J.**, Yang, H., Oh, H., Zelinsky, G., & Leung, H. C. (2012). Neural Correlates of Behavioral Performance During a Visual Search Task. *The Society for Neuroscience conference*, New Orleans |
| 13. | Huang, A. S., **Schmidt, J.**, Yang, H., Oh, H., Leung, H. C., & Zelinsky, G. (2012). Search is guided by two targets: Evidence from a combined fMRI and eye movements study. *Journal of Vision Presentation at Vision Science Society, 12(9),* 737. doi: 10.1167/12.9.737 |
| 12. | **Schmidt, J.**, MacNamara, A., Hajcak, G., & Zelinsky, G. (2012). A neural marker of the representation used to guide visual search. *Journal of Vision Presentation at Vision Science Society, 12(9),* 729. doi: 10.1167/12.9.729 |
| 11. | MacNamara, A., **Schmidt, J.**, Zelinsky, G. J. & Hajcak, G. (2011). Attention toward fearful and neutral faces presented under high and low working memory load: a combined ERP and eye-tracking study. *51st annual meeting of the Society for Psychophysiological Research,* Boston, MA. |
| 10. | **Schmidt, J.**, MacNamara, A., Hajcak, G., & Zelinsky, G. (2011). ERP correlates of the target representation used to guide search. *Journal of Vision Presentation at Vision Science Society, 11(11),* 1345. doi: 10.1167/11.11.1345 |
| 9. | MacNamara, A., **Schmidt, J.**, Zelinsky, G. J. & Hajcak, G. (2011). The effect of working memory load on electrocortical and ocular measures of attention to fearful and neutral faces.*Determinants of Executive Function and Dysfunction (DEFD) conference, “How do Executive Function and Emotion Interact?”*, Boulder, CO. |
| 8. | **Schmidt, J.**, & Zelinsky, G. J. (2010). Searching for two objects: Does knowing their relational alignment produce greater search guidance? *Journal of Vision Presentation at Vision Science Society, 10(7),* 1310a |
| 7. | **Schmidt, J.**, & Zelinsky, G. (2010) When is visual Information sampled? *Annual meeting of the Eastern Psychological Association,* Brooklyn, New York. |
| 6. | Zelinsky, G. J., **& Schmidt, J.** (2009). Searching aerial images: Evidence for scene constraints in the absence of global context. *Journal of Vision Presentation at Vision Science Society, 9(8),* 1195a |
| 5. | **Schmidt, J.**, & Zelinsky, G. J. (2009). Visual search guidance is best shortly after target preview offset. *Journal of Vision Presentation at Vision Science Society, 9(8),* 1183a |
| 4. | Zelinsky, G. J., Yang, H., & **Schmidt, J.** (November 21, 2009). Categorical visual search. (Part of the symposium on Visual Knowledge) *Abstracts of the 50th Annual Meeting of the Psychonomic Society, 14*, 25-26. Boston, MA. |
| 3. | **Schmidt, J.**, & Zelinsky, G. J. (2008). Visual search guidance increases with a delay between target cue and search. *Journal of Vision Presentation at Vision Science Society, 8(6),* 317a. |
| 2. | **Schmidt, J.**, & Zelinsky, G. J. (2007). Manipulating the availability of visual information in search. *Journal of Vision Presentation at Vision Science Society, 7(9),* 715a. |
| 1. | **Schmidt, J.**, & Zelinsky, G. J. (2006). How is gaze affected by cognitive load and visual complexity? *Journal of Vision Presentation at Vision Science Society, 6(6),* 363a. |

**PRESENTATIONS (Non-refereed posters)**

\* indicates significant direct supervision

\*Ford, S., & **Schmidt, J.** (2022) Adaptive Training for Categorical Visual Search. Poster presentation at the UCF Student Scholar Symposium

\*Hernandez, D., Paquette, N., & **Schmidt, J.**, (2020) Effects of stress on prefrontal cortex (PFC) activity: Emotion versus pressure based stress on top-down functioning during attention based tasks. University of Central Florida: SURE – accepted, canceled due to COVID-19

\*Paquette, N., & **Schmidt, J.** (2019) The Neurophysiology of Object Representations: Do Event-Related Potentials Tell the Whole Story? University of Central Florida: GRF

\*Hagen, A., Miuccio, M. & **Schmidt, J.**, (2019) Using Metacognition to Predict Search Performance. University of Central Florida: SURE

\*Hernandez, W., Koniuszy, R., Ericolino, A., & **Schmidt, J.** (2018) The Effects of First Fixation Duration on Visual Search Performance. University of Central Florida: SURE

Porter, A., Klusek, J., **Schmidt, J.**, & Roberts, J.E. (2015). The Relation Between Anxiety and Heart Rate in Women with the FMR1 Premutation During Direct and Averted Gaze. *University of South Carolina’s “Discovery Day” Undergraduate Research Symposium*, April

Cantu, C., Klusek, J., **Schmidt, J.**, & Roberts, J. E., (2014). Social Anxiety in the FMR1 Premutation: A First Look at Gaze Responses to Simulated Eye Contact. *University of South Carolina’s “Discovery Day” Undergraduate Research Symposium*, April

\*Olejarczyk, J., Luke, S.G., **Schmidt, J.,** & Henderson, J. M. (2013, April). Effects of Spatial Frequency on Fixation Duration within Scenes. *University of South Carolina’s “Graduate Student Day” Research Symposium*

**TEACHING AND MENTORING EXPERIENCE**

***Mentoring / Student supervision:***

*2016-present* Currently supervising a post-doctorate student, 4 graduate students, and ~10 undergraduate research assistants, University of Central Florida

*2019-2022* Mentored two freshman students via the Learning Environment and Academic Research Network (L.E.A.R.N.) program at UCF. Two of them, Dalaia Hernandez and Natalia Fuentes, have continued to work in the lab after the program ended. Michael Baker and Jaden Grant also participated.

*2020-2023*  Mentored an AP research student from Oviedo High School, Ella Pilacek, who conducted a research study related to remote learning/memory and camera usage. She was ultimately nominated and presented at the county science fair. I am currently mentoring Lylla Turco through the same program. She is investigating if the visual paired-comparison task (an assessment for mild cognitive impairment) can be successfully implemented on mobile phones using the webcam to record eye movements.

*2022-2023* Mentored one student from Lake Highland Preparatory school through the ASPIRE program, which pairs high school students with scientific mentors to develop and conduct an independent research project to present in science competitions.

*2023-Present* Currently serving as the faculty advisor for the Epilepsy Awareness Club

***Student committee service:***

*( ) indicates students home department, when absent, the student is in the Psychology Human Factors and Cognition (HFC) program*

In progress dissertation committees: Jessica Goetz, & Kimia Kiani (Engineering)

In progress dissertation committees (currently serving as chair): Natalie Paquette

Completed dissertation committees (currently serving as chair): Ashley Phelps, & Michael Miuccio

Completed dissertation committees: Dawn Eckhoff (UCF Nursing), Joanna Lewis, Dawn Sarno, Theresa Kessler, Kylie Fernandez, Clay Killingsworth, & Maria Gonzalez (UCF Engineering)

External comprehensive exam committee member: Jessica Madrid (New Mexico State University, Psychology), Master’s thesis committee: Sarah McWilliams (South Alabama University, Communications Sciences Disorders)

Outside area member: Maria Gonzalez qualifying exam (UCF Engineering)

First year paper primary reader: Ashley Ercolino, Rosaria Bryan, Natalie Paquette, Michael Miuccio, Steven Ford

First year paper second reader: Jessica Goetz, & Dawn Sarno

Second year paper primary reader: Ashley Ercolino, Natalie Paquette, Michael Miuccio, and Steven Ford

Second year paper second reader: Jessica Goetz

Third year paper primary reader: Ashley Ercolino, Natalie Paquette, Michael Miuccio

Third year paper second reader: Xiaoqing Wan, Elisabeth Slifkin

Committee member for Honors in the Major: Michael Harris, Keira Monaghan, Sofia Neira, & Melissa Merz

***Teaching:***

Fall 22 undergraduate Physiological Psychology (PSB 3002)

Fall 22 undergraduate Perception (EXP 3204)

Summer 22 undergraduate Physiological Psychology (PSB 3002)

Summer 22 undergraduate Perception (EXP 3204)

Spring 22 graduate Psychophysiology (PSB 6328)

Spring 22 undergraduate Perception (EXP 3204)

Fall 21 undergraduate Physiological Psychology (PSB 3002) face-to-face

Fall 21 undergraduate Physiological Psychology (PSB 3002) online

Summer 21 undergraduate Physiological Psychology (PSB 3002)

Summer 21 undergraduate Perception (EXP 3204)

Spring 21 graduate Psychophysiology (PSB 6328)

Spring 21 undergraduate Perception (EXP 3204)

Fall 20 graduate Human Cognition and Learning (EXP 6506)

Fall 20 undergraduate Perception (EXP 3204)

Summer 20 undergraduate Physiological Psychology (PSB 3002)

Summer 20 undergraduate Perception (EXP 3204)

Spring 20 graduate Psychophysiology (PSB 6328)

Spring 20 undergraduate Perception (EXP 3204)

Fall 19 graduate Human Cognition and Learning (EXP 6506)

Fall 19 undergraduate Perception (EXP 3204)

Summer 19 undergraduate Physiological Psychology (PSB 3002)

Summer 19 undergraduate Perception (EXP 3204)

Spring 19 graduate Psychophysiology (PSB 6328)

Spring 19 undergraduate Perception (EXP 3204)

Fall 18 graduate Human Cognition and Learning (EXP 6506)

Fall 18 undergraduate Perception (EXP 3204)

Summer 18 undergraduate Physiological Psychology (PSB 3002)

Summer 18 undergraduate Perception (EXP 3204)

Spring 18 graduate Psychophysiology (PSB 6328)

Spring 18 undergraduate Perception (EXP 3204)

Fall 17 graduate Human Cognition and Learning (EXP 6506)

Fall 17 undergraduate Perception (EXP 3204)

Summer 17 undergraduate Physiological Psychology (PSB 3002)

Summer 17 undergraduate Perception (EXP 3204)

Spring 17 graduate Psychophysiology (PSB 6328)

Spring 17 undergraduate Perception (EXP 3204)

Fall 16 graduate Human Cognition and Learning (EXP 6506)

Summer 16 undergraduate Physiological Psychology (PSB 3002)

Summer 16 undergraduate Perception (EXP 3204)

Spring 16 undergraduate Perception (EXP 3204)

Spring 16 graduate Psychophysiology (PSB 6328)

Fall 15 graduate Human Cognition and Learning (EXP 6506)

**INVITED TALKS / COLLOQUIA / GUEST LECTURES**

Schmidt, J. (2022) “Investigating The Fluid Interaction of Attention and Memory: The Attention and Memory Lab (who we are and what we do)”, Invited presentation for the Medical school, University of Central Florida

Schmidt, J. (2022) “Getting Grants”, Guest lecture for graduate level Professional Issues Course, University of Central Florida

Schmidt, J. (2020) “Getting Grants”, Guest lecture for graduate level Professional Issues Course, University of Central Florida

Schmidt, J., (2017) “The Interactive Nature of Memory and Attention” Department of Statistics, Big Data Colloquium, University of Central Florida

Schmidt, J., (2016) “Saccade Programming” Guest lecture for graduate level Attention, University of Central Florida

Schmidt, J., (2015) “The Fluid Interaction of Memory and Attention” Department of Psychology Colloquium, University of Central Florida

Schmidt, J., (2012) “Information availability and how search performance is affected by the guiding representation” Department of Psychology Colloquium, University of South Carolina

Schmidt, J., (2012) “How search performance is affected by the guiding representation” Department of Computer Science and the Department of Psychology Colloquium, University of Massachusetts at Boston

Schmidt, J., (2011) “CDA, VWM, Search Guidance, Processing Speed and Their Intertwined Relationship” Experimental & Cognitive Psychology Colloquium, Stony Brook University

Schmidt, J., (2010) “Searching for two objects: Does knowing the spatial relationship between the objects produce greater search guidance?” Experimental & Cognitive Psychology Colloquium, Stony Brook University

Schmidt, J., (2010) “Visual search guidance is best after a short delay” 2nd/4th Year Department Symposium, Stony Brook University

Schmidt, J., (2009) “When is information loaded into visual working memory to guide search?” Experimental & Cognitive Psychology Colloquium, Stony Brook University

Schmidt, J., (2009) “Search & Object Based Attention” Guest lecture for Sensation & Perception, Stony Brook University

Schmidt, J., (2009) “Psychophysical Techniques” Guest lecture for Sensation & Perception, Stony Brook University

Schmidt, J., (2008) “Visual Search Guidance Changes with a Delay between Target Cue and Search” Experimental & Cognitive Psychology Colloquium, Stony Brook University

Schmidt, J., (2008) “Manipulating the Availability of Visual Information in Search” 2nd/4th Year Department Symposium, Stony Brook University

Schmidt, J., (2007) “Manipulating the Availability of Visual Information in a Target Cue Mediates Guidance in Visual Search” Experimental & Cognitive Psychology Colloquium, Stony Brook University

Schmidt, J., (2007) “Attention part I” Guest lecture for Survey in Cognition & Perception, Stony Brook University

Schmidt, J., (2007) “Gaze Aversion as it Relates to Visual Stimuli” Experimental & Cognitive Psychology Colloquium, Stony Brook University

**SERVICE**

Served on the CRCV Assistant Professor search committee 2022-Present

Served on the UCF SONA committee and served as the data analyst 2021-Present

Served on lecturer promotion committee 2016 – 2019, 2021-Present

Served on the Promotion and Tenure Committee 2021-Present

Organized and managed the first-year talk session for the HFC program 2015-2021

Organized the Human Factors and Cognition Colloquium 2017-2018, 2020-2021

Served on the HFC Assistant Professor search committee 2019-2020

Represented the HFC program at the student job fair (2017)

Review Editor for Frontiers in Perception Science which includes review of multiple journals (Psychology; Perception Science; Neuroscience; Aging Neuroscience; 2012-Present)

Ad hoc reviewer for: 1) The Journal of Experimental Psychology: Human Perception and Performance; 2) Attention, Perception & Psychophysics; 3) Psychophysiology; 4) International Journal of Psychophysiology; 5) Quarterly Journal of Experimental Psychology; 6) Journal of Vision; 7) Vision Research; 8) Aging, Neuropsychology and Cognition; 9) Psychonomic Bulletin & Review; 10) Transactions on Biomedical Engineering; 11) Cognition; 12) Biological Psychology 13) Nature Scientific Reports 14) Autisim Research 15) Ophthalmology & Visual Science 16) National Science Foundation - Perception, Action & Cognition (NSF:PAC)

Ad hoc reviewer for NSF

**PROFESSIONAL AFFILIATIONS**

Vision Sciences Society

Eastern Psychological Association

Multidisciplinary Neuroscience Alliance (MDNA)

HFC Program Committee