

Justin W. Bonny, Ph.D.

Associate Professor

Department of Psychology | Morgan State University
1700 East Cold Spring Lane, Baltimore, MD, 21251
justin.bonny@morgan.edu | 443-885-3061
ORCID: 0000-0002-1601-5114

Education

- 2013 **Doctor of Philosophy, Psychology**, Emory University, Atlanta, GA
Concentration: Cognition and Development
Dissertation: *"Representing Quantitative Information: Developmental and Neural Comparisons of Mental Magnitudes"*
- 2010 **Master of Arts, Psychology**, Emory University, Atlanta, GA
- 2008 **Bachelor of Science with Honors, Psychology**, University of Maryland, College Park, MD
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Professional Experience

- Associate Professor**, 2025 – present, Dept. of Psychology, Morgan State University, Baltimore, MD
- Assistant Professor**, 2016 – 2019, 2020 – 2025, Dept. of Psychology, Morgan State University, Baltimore, MD
- Senior Cognitive Scientist**, 2019 – 2020, Intelligent Systems Branch, Research and Exploratory Development Department, The Johns Hopkins University Applied Physics Laboratory (JHU/APL), Laurel, MD
- Research & Analytics**, 2015 – 2016, foundry10, Seattle, WA
- Visiting Scholar**, 2014 – 2016, Dept. of Psychology, California State University, San Bernardino, CA
- Temporary Full-time Instructor**, 2015, Dept. of Psychology, San Bernardino Valley College (SBVC), San Bernardino, CA
- Research and Applied Scientist**, 2013 – 2014, Space and Naval Warfare Systems Center Atlantic (SSC LANT), Department of the Navy, Charleston, SC
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Publications

* denotes graduate student author; ‡ denotes undergraduate student

- Bonny, J.W.** & Russell, M.D.* (2025). The role of suppression performance information in judging when to use a fire extinguisher. *Safety*, 11(2), 58. <https://doi.org/10.3390/safety11020058>
- Russell, M.D.*, **Bonny, J.W.**, & Reed, R. (2024). Impact of virtual environment on decision-making and risk assessment during simulated residential fire scenarios. *Fire*, 7(12), 427. <https://doi.org/10.3390/fire7120427>
- Bonny, J.W.**, Hussain, Z.H.*, Russell, M.D.*, Trouve, A., Milke, J.A. (2024). Simulated fire video collection for advancing understanding of human behavior in building fires. *Frontiers in Psychology*, 15. <https://doi.org/10.3389/fpsyg.2024.1438020>
- Bonny, J.W.** (2024). Individual differences in cognitive abilities and personality traits predict Rocket League performance. *Journal of Electronic Gaming and Esports*. <https://doi.org/10.1123/jege.2023-0044>
- Bonny, J.W.** & Milke, J.A. (2023). Precision of visual perception of developing fires. *Fire*, 6(9), 328. <https://doi.org/10.3390/fire6090328>
- Bonny, J.W.** & Lourenco, S.F. (2023). Electrophysiological comparison of cumulative area and non-symbolic number judgments. *Brain Sciences*, 13(6), 975. <https://doi.org/10.3390/brainsci13060975>
- Bonny, J.W.** & Jones, A.M.* (2023). Teams moving more synchronously are perceived as socially dominant. *Acta Psychologica*, 237. <https://doi.org/10.1016/j.actpsy.2023.103952>
- Bonny, J.W.** (2022). Using collective metrics to assess team dynamics and performance in eSports. *International Journal of Gaming and Computer-Mediated Simulations*, 14(1). <https://doi.org/10.4018/IJGCMS.315604>
- Bonny, J.W.** (2022). Self-report and facial expression indicators of team cohesion development. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-022-01799-3>

- Bonny, J.W.** & Castaneda, L.M. (2022). To triumph or to socialize? The role of gaming motivations and sociocognitive traits in multiplayer online battle arena gameplay preferences. *Simulation & Gaming*, 53(2), 157-174. <https://doi.org/10.1177/10468781211070624>
- Bonny, J.W.** & Leventon, I.T. (2020). Measuring human perceptions of developing room fires: The influence of situational and dispositional factors. *Fire and Materials*. <https://doi.org/10.1002/fam.2857>
- Bonny, J.W.**, Scanlon, M., & Castaneda, L.M. (2020). Variations in psychological factors and experience-dependent changes in team-based video game performance. *Intelligence*, 80. <https://doi.org/10.1016/j.intell.2020.101450>
- Bonny, J.W.**, Lindberg, J.C., Pacampara, M.C. (2017). Hip hop dance experience linked to sociocognitive ability. *PLoS ONE*. <https://doi.org/10.1371/journal.pone.0169947>
- Bonny, J.W.** & Castaneda, L.M. (2017). Number processing ability is connected to longitudinal changes in multiplayer online battle arena skill. *Computers in Human Behavior*, 66, 377-387. <https://doi.org/10.1016/j.chb.2016.10.005>
- Lourenco, S.F. & **Bonny, J.W.** (2017). Representations of numerical and non-numerical magnitude both contribute to mathematical competence in children. *Developmental Science*, 20(4), e12418, <https://doi.org/10.1111/desc.12418>
- Bonny, J.W.** & Castaneda, L.M. (2016). Impact of the arrangement of game information on recall performance of multi-player online battle arena players. *Applied Cognitive Psychology*, 30(5), 655-826. <https://doi.org/10.1002/acp.3234>
- Lourenco, S. F., **Bonny, J.W.**, & Schwartz, B.L.[‡] (2016). Who wins? Children and adults use physical size and number in third-party judgments. *Frontiers in Developmental Psychology*. <https://doi.org/10.3389/fpsyg.2015.02050>
- Bonny, J.W.** & Lourenco, S.F. (2015). Individual differences in children's approximations of area correlate with competence in basic geometry. *Learning and Individual Differences*, 44, 16-24. <https://doi.org/10.1016/j.lindif.2015.11.001>
- Bonny, J.W.** & Lourenco, S. F. (2013). The precision of nonverbal number representation and its relation to mathematical ability: Evidence from the preschool years. *Journal of Experimental Child Psychology*, 114, 375-388. <https://doi.org/10.1016/j.jecp.2012.09.015>
- Lourenco, S.F., **Bonny, J.W.**, Fernandez, E.P., & Rao, S.[‡] (2012). The precision of number and cumulative area representations contribute shared and unique variance to symbolic math competence. *Proceedings of the National Academy of Sciences*, 109, 18737-18742. <https://doi.org/10.1073/pnas.1207212109>

Refereed Conference Proceedings

- Bonny, J.W.** & Wynne, K.T. (2024). Increasing human-likeness and acceptance of conversational autonomy through experience. In *Proceedings of the 2024 IEEE 4th International Conference on Human-Machine Systems (ICHMS)*. <https://doi.org/10.1109/ICHMS59971.2024.10555683>
- Bonny, J.W.** (2022). Enhancing student productive learning in undergraduate statistics courses using multi-submission online assignments. In *Silver Linings: Lessons Learned from Teaching during the Pandemic* <https://pressbooks.pub/silverlinings/>. William E. Kirwan Center for Academic Innovation, University System of Maryland.
- Bonny, J.W.** (2018). Preliminary evaluation of a brief team cohesion manikin scale. In *Proceedings of the Human Factors and Ergonomics Society 2018 Annual Meeting* (pp. 747–751). <https://doi.org/10.1177/1541931218621170>
- Bonny, J.W.**, Castaneda, L.M., & Swanson, T. (2016). Using an international gaming tournament to study individual differences in MOBA expertise and cognitive skills. In *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems* (pp. 3473-3484). <https://doi.org/10.1145/2858036.2858190>

Book Chapters

- Marble, J. L., Greenberg, A. M., **Bonny, J. W.**, Kain, S. M., Scott, B. J., Hughes, I. M., & Luongo, M. E. (2021). Platforms for assessing relationships: Trust with near ecologically-valid risk, and team interaction. In *Engineering Artificially Intelligent Systems* (pp. 209-229). Springer. https://doi.org/10.1007/978-3-030-89385-9_13

Manuscripts in Progress

available upon request

- Bonny, J.W.** (under review). Developmental changes in the precision of visual fire perception during early childhood. PsyArXiv Preprint: https://doi.org/10.31234/osf.io/f3daw_v1
- Bonny, J.W.**, Russell, M.D. * (in prep). Deciding to use a fire extinguisher: The impact of fire intensity, smoke, and growth rate.

Grants, Awards, and Honors

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| 2025 | Bonny, J.W. (PI). Center for Data Analytics and Sports Gaming Research Grant titled "Distortions in numeracy: Mental representations of number and sports betting behavior" (\$5,000), Morgan State University |
| 2024 | Reed, R. (PI), Bonny, J.W. (Co-PI). Indirect Cost Fund Award titled "Costly choices in the presence of a hazard: Correcting for costly decisions in survey responses through incentives" (\$10,000), Morgan State University |
| 2024 | Bonny, J.W. (PI), College of Liberal Arts Indirect Cost Fund Award titled "PsyXR: Psychological Measures in Extended Reality" (\$1,500), Morgan State University |
| 2024 | Bonny, J.W. (PI), Cherry, S. (Co-PI), Transform Morgan Indirect Cost Fund Award titled "Student-driven Online Museum Experiences in Virtual Reality" (\$10,000), Morgan State University |
| 2023 | Bonny, J.W. (PI), Wynne, K.T. (Co-PI), Center for Data Analytics and Sports Gaming Research Grant titled "AI, Take the Wheel: Using Autonomous Agents as Teammates in Sports Betting and Planning" (\$5,000), Morgan State University |
| 2023 | Bonny, J.W. (PI), College of Liberal Arts Indirect Cost Fund Award titled "Diverse Brains in Motion: Investigating Neuroimaging Methods that are Compatible with Multiple Hair Styles and Movement" (\$1,999), Morgan State University |
| 2022 | Bonny, J.W. (PI), RCMI Research Pilot Grant titled "Child Fire Casualty Disparities: Development of Fire Cue Perception" (\$49,983), Morgan State University (via NIMHD parent grant), competitive (parent award number 5U54MD013376) |
| 2022 | Bonny, J.W. (PI), Milke, J.A. (Co-PI), NSF titled "Human Visual Perception of Changes in Smoke and Flame Cues during Early Fire Development" (\$596,383), competitive (award number 2200416) |
| 2021 | Bonny, J.W. (PI), xTech HBCU Prize Competition Round 1 and Round 2 recipient titled "Identifying and Training Quantum-Literate Warfighters" (\$20,000), U.S. Army Research Office, competitive |
| 2021 | Bonny, J.W. (PI), xTech HBCU Prize Competition Round 1 recipient titled "Psychophysiological Indicators of Human Perceptions of Machine Teammates" (\$5,000), U.S. Army Research Office, competitive |
| 2021 | Bonny, J.W. (PI), ASCEND Summer Mini-Sabbatical Research Grant titled "Human Visual Perception of Changes in Flame and Smoke Cues during Simulated Fires" in collaboration with the Department of Fire Protection Engineering at the University of Maryland, College Park (\$5,000), Morgan State University (via NIH parent grant), competitive |
| 2021 | Bonny, J.W. (PI), Kyoto University Kokoro Research Center (KRC) Collaborative Research Project titled "Influence of Facial Displays of Emotion and Collective Behaviors on Perceptions of Team Effectiveness", competitive |
| 2019 | Bonny, J.W. (PI), U.S. Army Research Institute for the Behavioral and Social Sciences Basic Research Grant titled "Profiles of Cohesion in Ad-Hoc Teams: Impact of Experience and Psychological Traits" (Early Career Award; \$356,762), competitive |
| 2018 | Bonny, J.W. (PI), Division 49 Group Psychology Grant titled "Impact of Experience and Personality Traits on Formation of Cohesion in Ad-Hoc Groups" (\$1,650), American Psychological Foundation, competitive |
| 2018 | Bonny, J.W. (PI), Faculty Development Travel Support Award, Morgan State University, competitive |
| 2018 | Bonny, J.W. (PI), ASCEND Research Pilot Grant titled "Diverse Stimuli Set to Assess Emotion Recognition in Virtual Environments" (\$49,957), Morgan State University (via NIH parent grant), competitive |
| 2017 | Bonny, J.W. (PI), Faculty Enhancement Program Summer Grant Award (\$5,000), Morgan State University, competitive |
| 2017 | Bonny, J.W. (PI), ASCEND Course Redesign Award (\$18,000), Morgan State University (via NIH parent grant), competitive |
| 2014 | (2) PI, Naval Innovative Science and Engineering Grants, SSC LANT, competitive |
| 2012 | SMART Scholarship from the Department of Defense |
| 2011 | Student Travel Award, competitive, Society for Research in Child Development |
| 2010 | NSF Graduate Research Fellowship Honorable Mention |
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Conference Presentations (Extramural)

* denotes graduate student author; ‡ denotes undergraduate student

- Bonny, J.W.** (2025, May). *Watching fires: Visual perception of fire growth rate is influenced by environmental factors*. Paper presented at the Association for Psychological Science Annual Meeting, Washington, D.C.
- Bonny, J.W.**, Russell, M.D.* (2025, April). *Investigating overlap in representations of non-symbolic quantities: Number, area, and fire*. Poster presented at the Cognitive Neuroscience Society Annual Meeting, Boston, MA.
- Russell, M.D.*, **Bonny, J.W.** (2025, March). *Fighting fire: Factors impacting the response to a simulated fire emergency*. Paper presented at the Eastern Psychological Association Annual Meeting, New York, NY.
- Wynne, K.T., **Bonny, J.W.**, & Pershad, H.* (2025, April). *Autonomous agent teammate-likeness: Scale development and validation*. Poster presented at the 40th Annual SIOP Conference, Denver, CO.
- Russell, M.D.*, **Bonny, J.W.** (2024, November). *A room with a better view: The impact of environment and location on perceived fire danger*. Paper presented at Psychonomic Society 65th Annual Meeting, New York, NY.
- Russell, M.D.*, **Bonny, J.W.**, & Reed, R. (2024, October). *Decision-making and risk assessment of fire in virtual environments*. Paper to be presented at SFPE24 Annual Conference & Expo, Louisville, KY.
- Bonny, J.W.** (2024, April). *Demographic differences in the visual fire perception of young children*. Poster presented at the Research Centers in Minority Institutions (RCMI) Consortium National Conference, Bethesda, MD.
- Wynne, K.T. & **Bonny, J.W.** (2024, April). *Is my AI a teammate? Observations across four contexts*. Paper presented at the 39th Annual SIOP Conference, Chicago, IL.
- Bonny, J.W.** (2024, March). *Development of visual perception of fire intensity in early childhood*. Poster presented at the Biennial Meeting of the Cognitive Development Society. Pasadena, CA.
- Bonny, J.W.**, Russell, M.D.* (2023, November). *No distinction between fire extinguisher capacity when judging use with developing fires*. Paper presented at the 67th International Annual Meeting of the Human Factors and Ergonomics Society. Washington, D.C.
- Bonny, J.W.**, Russell, M.D.*, Milke, J.A., Trouve, A., & Hussain, Z.H.* (2023, August). *Situational factors affect perceived risk and protective actions of residential room fires*. Poster presented at the Annual Meeting of the American Psychological Association, Washington, D.C.
- Waters, G. ‡ & **Bonny, J.W.** (2023, August). *Fire perception in virtual environments*. Poster presented at the Annual Meeting of the American Psychological Association, Washington, D.C.
- Hughes, E.R., Naranjo, A., & **Bonny, J.W.** (2023, August). *Emergent states in ad-hoc teams: Examining team cognition profiles for cohesion*. Poster presented at the Annual Meeting of the American Psychological Association, Washington, D.C.
- Naranjo, A., Hughes, E.R., & **Bonny, J.W.** (2023, August). *Examining personality profiles for building cohesion in ad-hoc teams*. Poster presented at the Annual Meeting of the American Psychological Association, Washington, D.C.
- Jones, A.M.*, **Bonny, J.W.** (2023, May). *Nsync is better: Synchronously moving TEAMS are perceived as socially dominant*. Poster presented at the 2023 APS Annual Convention. Washington, D.C.
- Russell, M.D.*, **Bonny, J.W.** (2023, May). *A body in motion: Assessment reimaged through embodied techniques*. Poster presented at the 2023 APS Annual Convention. Washington, D.C.
- Bonny, J.W.**, Milke, J.A. (2023, May). *Comparing fire: Precision of visual perception of fire intensity*. Poster presented at the Vision Sciences Society Annual Meeting 2023. St. Pete Beach, Florida.
- Russell, M.D.*, **Bonny, J.W.**, Trouve, A., & Milke, J.A. (2023, May). *Like a moth to the flame: Visual sensitivity to 2D and 3D renderings of growing fires*. Poster presented at the Vision Sciences Society Annual Meeting 2023. St. Pete Beach, Florida.
- Bonny, J.W.** (2021, October). *Case study: Using multi-submission online assessments to enhance student productive learning in undergraduate statistics courses*. Paper presented at the University System of Maryland Kirwan Center Faculty Showcase, Silver Linings: Lessons Learned from Teaching during the Pandemic.

- Bonny, J.W.** (2021, February). *Alignment of member- and observer- reported ratings of team cohesion*. Paper presented at the 2021 Society for Personality and Social Psychology Virtual Annual Convention.
- Bonny, J.W.** (2020, August). *I want to keep playing with them: Impact of psychological traits and performance on teammate choice*. Poster presented at the Annual Meeting of the American Psychological Association, Washington, D.C.
- Bonny, J.W.** (2020, August). *Non-symbolic number and size: Evidence of connections from comparison and ordinal processing tasks*. Poster presented at the Annual Meeting of the American Psychological Association, Washington, D.C.
- Bonny, J.W.** (2020, June). *Development of cohesion in newly-formed teams shaped by member personality traits*. 125th Annual Meeting of the Eastern Psychological Association, Boston, MA.
- Smith, K. † & **Bonny, J.W.** (2020, June). *The influence of surface-level characteristics on the cohesion of ad-hoc groups*. Poster presented at the 125th Annual Meeting of the Eastern Psychological Association, Boston, MA.
- Bonny, J.W.** & Leventon, I.T. (2019, July). *Influence of dispositional and situational factors on human perceptions of fire risk*. Paper presented at the 15th International Conference and Exhibition on Fire Science and Engineering. Egham, UK.
- Bonny, J.W.**, Leventon, I.T., Balci, T. †, Clouse, K. †, & Haines, R.T. (2019, May). *Changes in perceptions of growing fires: Room fires perceived as dangerous prior to requiring protective action*. Poster presented at the 31st APS Annual Convention. Washington, D.C.
- Bonny, J.W.**, Barnes, A.T.*, Gibbs, M.D. †, & McDowell, K.C. † (2019, May). *Picturing facial displays of emotion: Connections between recognition and imitation of complex emotion*. Poster presented at the 31st APS Annual Convention. Washington, D.C.
- Bonny, J.W.** (2018, April). *Hand movement enhances 3D non-symbolic number perception*. In *TechMindSociety '18 Proceedings of the APA Technology, Mind, and Society Conference*. Washington, D.C.
- Bonny, J.W.**, Castaneda, L.M., & Swanson, T. (2016, May). *Using an international gaming tournament to study individual differences in MOBA expertise and cognitive skills*. Paper presented at the annual ACM CHI Conference on Human Factors in Computing Systems. San Jose, CA.
- Toups, Z.O. & **Bonny, J.W.** (2014, October). *Measuring team coordination in play: Anticipation ratio and beyond*. Games User Research and Analytics workshop at the ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY) 2014. Toronto, Canada.
- Bonny, J. W.** & Lourenco, S.F. (2013, April). *Partial dissociations in cumulative area and number representations in children and adults*. Poster presented at the Biennial meeting of the Society for Research in Child Development. Seattle, WA.
- Bonny, J. W.** & Lourenco, S.F. (2013, April). *Use of physical size and numerical alliances in group dominance across development*. Poster presented at the Biennial meeting of the Society for Research in Child Development. Seattle, WA.
- Bonny, J. W.** & Lourenco, S. F. (2011, October). *Precision of number, size, and cumulative area discriminations in preschoolers*. Poster presented at the Biennial Meeting of the Cognitive Development Society. Philadelphia, PA.
- Bonny, J. W.** & Lourenco, S.F. (2011, July). *General magnitude representation and mathematics: how number and area acuity relate to math ability*. Poster presented at the Annual meeting of the Cognitive Science Society. Boston, MA.
- Bonny, J. W.** & Lourenco, S.F. (2011, April). *Area acuity is correlated with visuo-spatial reasoning in children*. Poster presented at the Biennial meeting of the Society for Research in Child Development. Montreal, Canada.
- Bonny, J. W.** & Lourenco, S.F. (2011, March). *Connections between numerical acuity and specific mathematical skills in preschoolers*. Poster presented at the Biennial meeting of the Society for Research in Child Development. Montreal, Canada.
- Bonny, J. W.**, Skillrud, K.M. †, & Lourenco, S. F. (2010, March). *Cross-modal number matching in young children*. Poster presented at the Biennial Meeting of the International Society of Infant Studies. Baltimore, Maryland.
- Bonny, J. W.** & Lourenco, S. F. (2009, October). *Magnitude acuity and the relation to mathematical skill*. Poster

presented at the Biennial Meeting of the Cognitive Development Society. San Antonio, TX.

Bonny, J. W. & Lourenco, S. F. (2009, July). *The spatial organization of magnitude information*. Poster presented at the Annual Meeting of the Cognitive Science Society. Amsterdam, Netherlands.

Henderson, A.M.E., Woodward, A., **Bonny, J. W.**, & Smith, J. (2009, April). *Do nine-month-olds appreciate the shared nature of new linguistic forms?* Poster presented at the Biennial meeting of the Society for Research in Child Development. Denver, CO.

Bonny, J.W., Wallsten, T.S., & Lejuez, C.W. (2008, April). *Does affect make for more optimal behavior on sequential risk tasks?* Poster presented at the Annual Meeting of the National Conference for Undergraduate Research. Salisbury, MD.

Conference Presentations (Intramural)

* denotes graduate student author; ‡ denotes undergraduate student

Nash, E. ‡ & **Bonny, J.W.** (2025, April). *Breakdown: A mixed-method analysis of fire perception in simulated emergency call situations*. Poster presented at the Morgan State University 29th Annual Undergraduate and Graduate Research Symposium. Baltimore, M.D.

Boyd, M.* & **Bonny, J.W.** (2025, April). *Breakdown: A mixed-method analysis of fire perception in simulated emergency call situations*. Poster presented at the Morgan State University 29th Annual Undergraduate and Graduate Research Symposium. Baltimore, M.D.

Taylor, S. ‡, Russell, M.R.* & **Bonny, J.W.** (2023, April). *Breakdown: A mixed-method analysis of fire perception in simulated emergency call situations*. Poster presented at the Morgan State University 28th Annual Undergraduate and Graduate Research Symposium. Baltimore, M.D.

Bonny, J.W. (2023, April). *Translating online human behavior in fire research to developmental samples*. Poster presented at the Center for Urban Health Disparities Research and Innovation Inaugural Conference. Baltimore, M.D.

Jones, A.M.* & **Bonny, J.W.** (2022, April). *NSYNC is better: Synchronously moving teams are perceived as socially dominant*. Poster presented at the Morgan State University 27th Annual Undergraduate and Graduate Research Symposium. Baltimore, M.D.

Balci, K.C. ‡, **Bonny, J.W.** & Perrino, C. (2019, April). *Measuring perception of fire risk using eye tracking*. Poster presented at the Morgan State University 26th Annual Undergraduate and Graduate Research Symposium. Baltimore, M.D.

Clark, S. ‡, **Bonny, J.W.** & Perrino, C. (2019, April). *The effect of encumbrment on cognitive perception in sports*. Poster presented at the Morgan State University 26th Annual Undergraduate and Graduate Research Symposium. Baltimore, M.D.

Clouse, K. ‡, **Bonny, J.W.** & Haines, R.T. (2019, April). *Perception of fire: Is it worth the risk?* Poster presented at the Morgan State University 26th Annual Undergraduate and Graduate Research Symposium. Baltimore, M.D.

Balci, K.C. ‡, **Bonny, J.W.** & Perrino, C. (2019, April). *Measuring perception of fire risk using eye tracking*. Poster presented at the 34th Annual Mae P. Claytor Behavioral Science Undergraduate Research Conference. Baltimore, M.D.

Clark, S. ‡, **Bonny, J.W.** & Perrino, C. (2019, April). *The effect of encumbrment on cognitive perception in sports*. Poster presented at the 34th Annual Mae P. Claytor Behavioral Science Undergraduate Research Conference. Baltimore, M.D.

Clouse, K. ‡, **Bonny, J.W.** & Haines, R.T. (2019, April). *Perception of fire: Is it worth the risk?* Poster presented at the 34th Annual Mae P. Claytor Behavioral Science Undergraduate Research Conference. Baltimore, M.D.

McDowell, K.C. ‡, **Bonny, J.W.** & Haines, R.T. (2019, April). *Young adults' use of space when creating virtual reality art*. Poster presented at the 34th Annual Mae P. Claytor Behavioral Science Undergraduate Research Conference. Baltimore, M.D.

Invited Talks

Ingenuity Project, Baltimore Polytechnic Institute, Survey Design for 9th Graders, December 2024.

Morgan State University, RCMI Center for Health Disparities Research and Innovation Seminar Series, January 2024.
 Panelist, Graduate Research Interdisciplinary Network Development (GRIND) Conference: Transforming 21st Century Institutions, April 2023.

ready at five (non-profit), School Readiness Symposium, 2018.

University of Maryland, College Park, Department of Department of Human Development and Quantitative Methodology Colloquia Series, 2018.

Morgan State University, Psychometrics Talk Series, 2016.

Morgan State University, NIGMS-RISE Program Seminar Series, 2016.

University of Washington, Design Use Build (DUB) Seminar Series. 2016.

University of California, Riverside, Department of Psychology, Developmental Brown Bag. 2014.

Science and Technology Advisory Council Colloquium Series, SSC LANT. 2013.

Press Coverage of Research

Zumer, B. (2022, November 16). Grant to fund virtual fire simulations and fire-safety research at Morgan State. WMAR-TV ABC 2. Television Broadcast: https://archive.veyes.com/18120/3657071-28991/5bd55b9b-94c9-43cd-b8a6-4f75637c27a8/WMAR_11-17-2022_04.50.47.mp4

NIST News and Events (2019, July 14). Group Members Participate in the 15th International Conference and Exhibition on Fire Science and Engineering. Retrieved from: <https://www.nist.gov/news-events/news/2019/07/interflam-2019>

Dolan, E. (2017, February 28). Study finds number processing task predicts improvements in gaming skill. PsyPost. Retrieved from: <http://www.psypost.org/2017/02/study-finds-number-processing-task-predicts-improvements-gaming-skill-47866>

Mitchell, F. (2016, March 23). New studies from Foundry10 suggest cognitive benefits to playing esports. *The eSports Observer*. Retrieved from: <https://esportsobserver.com/new-studies-foundry10-suggest-cognitive-benefits-playing-esports/>

Clark, C. (2012, October 24). Higher-math skills entwined with lower-order magnitude sense. *eScience Commons*. Retrieved from: <http://esciencecommons.blogspot.com/2012/10/higher-math-skills-entwined-with-lower.html>

Teaching Experience and Training

2022-	Professor: Applied Statistical Inference (Psychometrics graduate course; Morgan State)
2021-	Professor: Principles of Statistical Methods (Psychometrics graduate course; Morgan State)
2022-	Professor: Cyberpsychology (Morgan State)
2018-	Professor: Cognitive Psychology (Morgan State)
2018-	Professor: Psychology of Exceptional Children (Morgan State)
2018-	Professor: Experimental Psychology I (Morgan State)
2017-	Professor: Learning and Memory (Morgan State)
2017-	Professor: Scientific Methods in Psychology (Morgan State)
2017-	Professor: Psychology Statistics II (Morgan State)
2016-	Professor: Psychology Statistics I (Morgan State)
2016-	Professor: General Psychology (Morgan State)
2015	Professor: Introduction to Psychology (including distance learning section; SBVC)
2015	Professor: Introduction to Research Methods (SBVC)
2013	Instructor: Infancy (Emory University)
2012	Teaching Assistant: Cognition (Emory University)
2011	Teaching Assistant: Intro to Psychology (Emory University)
2010	Teaching Associate: Experimental Methods (Emory University)
2009	Teaching Assistant: Applied Statistics for Psychology (Emory University)

Professional Development Completed:

2025	jsPsych Hackathon, Vassar College (National Science Foundation, Award 2346214)
2025	AI Unlocked: Empowering Higher Education through Research and Discovery, University of Colorado (National Science Foundation, NAIRR Pilot)
2023	Tableau Educator Workshop
2020	Quality Matters: Designing Your Online Course (DYOC)

2020	Morgan State University Teach Online Workshop
2009	Teaching Training Workshop (Emory University)
2009	Teaching Pedagogy Course (Emory University)

Mentoring

2025-	High School Student Researcher, The Ingenuity Project, Baltimore Polytechnic Institute (Morgan State)
2024-	Undergraduate Research Assistant, Erin Nash (Morgan State)
2023-2025	Psychometrics Masters Student, Monet Boyd (Morgan State)
2022-	Psychometrics Doctoral Student, Micah Russell (Morgan State)
2021-	Psychometrics Doctoral Student, Anya Jones (Morgan State)
2023	Undergraduate Research Assistant, Sandra Taylor (Morgan State)
2022	Undergraduate Research Assistant, Gabriella Waters (Morgan State)
2021-2023	Graduate Student Instructor Mentor for Teaching Instruction Training and Networking (TITAN; Morgan State)
2020-2021	Undergraduate Research Assistant, Da'Mariah Jones (Morgan State)
2018-2020	Thesis Student and Undergraduate Research Assistant, Keona Smith (Morgan State)
2018-2019	Undergraduate Research Assistant, Jeneah Jackson (Morgan State)
2018-2019	Undergraduate Research Assistant, Layshel Kemp (Morgan State)
2018-2019	Thesis Student and Undergraduate Research Assistant, Tugba Balci (Morgan State)
2018-2019	Thesis Student and Undergraduate Research Assistant, Sarah Clark (Morgan State)
2018-2019	Thesis Student and Undergraduate Research Assistant, Katherine Clouse (Morgan State)
2018-2019	Thesis Student and Undergraduate Research Assistant, Kaaliyah McDowell (Morgan State)
2017-2019	Undergraduate Research Assistant, Amber Fowler (Morgan State)
2017-2019	Undergraduate Research Assistant, Maya Gibbs (Morgan State)
2018-2019	Undergraduate Research Assistant, Khalia Fernandez (Morgan State)
2018-2019	Undergraduate Research Assistant, Janae Freeman (Morgan State)
2017-2018	Undergraduate Research Assistant, India Harper (Morgan State)
2017-2018	Undergraduate Research Assistant, Rayna Wallace (Morgan State)
2018	Undergraduate Research Assistant, Letisha Vincent (Morgan State)
2018	Summer Undergraduate Research Assistant, Assata Barnes (Morgan State)
2018	Summer Undergraduate Research Assistant, Mercedes Mitchell (Morgan State)
2018	Undergraduate Research Assistant, Markea Carter (Morgan State)
2018	Undergraduate Research Assistant, Tyla Archer (Morgan State)
2017-2018	Undergraduate Research Assistant, Jessica Brown (Morgan State)
2017-2018	Undergraduate Thesis Student, Jonel� Campbell (Morgan State)
2017-2018	Undergraduate Thesis Student, George Ramos (Morgan State)
2016-2018	ASCEND Undergraduate Research Team (Morgan State)
2015	Honors student, Tania Escobedo (SBVC)
2012	Honors student, Bari Schwartz (Emory University)
2010	Honors student, Sonia Rao (Emory University)
2010	Research Assistant, Kirsten Skillrud (Emory University)

Graduate Student Committees

2025-	Chair, Micah Russell (Doctoral), Graduate Program in Psychometrics (Morgan State)
2022-	Member, Wafa Alshahrani (Doctoral), Department of Advanced Studies, Leadership & Policy (Morgan State)
2021-	Chair, Anya Jones (Doctoral), Graduate Program in Psychometrics (Morgan State)
2023-2025	Chair, Monet Boyd (Masters), Graduate Program in Psychometrics (Morgan State)
2022-2024	Chair, Micah Russell (Masters), Graduate Program in Psychometrics (Morgan State)
2022-2024	Member, Christopher Amisshah (Doctoral), Graduate Program in Psychometrics (Morgan State)
2022-2023	Member, Keyshawn Moncrieffe (Doctoral), Department of Advanced Studies, Leadership & Policy (Morgan State)

Professional Service

2025-	Member, Board of Directors, The Ingenuity Project
2025-	Member, Board of Directors, Eastern Psychological Association

2023-	Chair, Department of Psychology Adjudication Committee, Morgan State University
2022-	Member, University Research Committee, Morgan State University
2017-	Member, Morgan State University Institutional Review Board (IRB)
2017-	Member, Psychometrics Graduate Program Admissions Interview Committee, Department of Psychology, Morgan State University
2021-	Member, Faculty Workload Policy Taskforce, College of Liberal Arts Representative, Morgan State University
2017-	Member, Department of Psychology Faculty Search Committee, Morgan State University
2021-2022	Co-chair, Research Subcommittee, Center for Data Analytics and Sports Gaming Working Group, Morgan State University
2019-2020	New Hire Buddy, Intelligent Systems Branch, JHU/APL
2019-2020	Intern Coordinator Team Member, Intelligent Systems Branch, JHU/APL
2017-2019	Administrator, Department of Psychology Online Participant Pool (Sona Systems), Morgan State University
2017-2019	Member, Faculty Workload Committee, Department of Psychology, Morgan State University
2015	Participant in Division Faculty Meetings (SBVC)
2013-2014	Science and Technology Advisory Council Member (SSC LANT)
2011-2013	"Brainy Days" Outreach (Emory University; introduced topics in neuroscience to elementary school students using hands-on demos)
2011-2013	Member of Ethics Committee (Emory University)
2011-2013	Committee Member of Graduate Research Interdisciplinary Team of Scholars (Emory University)
2011	Graduate Student Council Representative (Emory University)

Service to the Community

2023-	Middle School Science Fair Judge, Baltimore City Public Schools
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Editorial Positions

2025-	Section Editor, Behavioral Sciences (Cognition section)
2024	Review Editor, Frontiers in Developmental Psychology (Cognitive Development section)

Expert Testimony

2025	Supreme Court of the State of New York
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Ad Hoc Reviewer

ACM CHI Conference on Human Factors in Computing Systems
 American Psychological Association Technology, Mind, Society Conference
 Brain and Behavior
 British Journal of Developmental Psychology
 Cognitive Processing
 Cyberpsychology, Behavior, and Social Networking
 Developmental Science
 Evolutionary Psychological Science
 Frontiers in Human Neuroscience
 Journal of Experimental Child Psychology
 PCI Registered Reports
 PLoS One
 Research in Developmental Disabilities
 Simulation & Gaming

Affiliations (current and former)

American Psychological Association, Division 3, Experimental and Cognitive Psychology
 American Psychological Association, Division 7, Developmental Psychology
 American Psychological Association, Division 8, Society for Personality and Social Psychology
 American Psychological Association, Division 21, Applied Experimental and Engineering Psychology

American Psychological Association, Division 49, Society of Group Psychology and Group Psychotherapy
Association for Psychological Science
Cognitive Development Society
Cognitive Neuroscience Society
Cognitive Science Society
Eastern Psychological Association
Psychonomic Society
Society for Personality and Social Psychology
Society for Research in Child Development
Vision Sciences Society