

CHRISTOPHER R. SHELTON, Ph.D.

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Clinical Mental Health: 14 years (2012–present), **Digital Health & Behavioral Informatics:** 17 years (2009–present)
Applied ML & Predictive Modeling: 10 years (2016–present), **AI/LLM Clinical Products:** 4 years (2022–present)

EDUCATION

Doctor of Philosophy , University of Wyoming APA-Accredited Clinical Psychology Program	2018
Master of Arts , Eastern Illinois University Clinical Psychology Program	2013
Research Assistant , Center for the Study of Family Violence and Sexual Assault	2011
Bachelor of Arts , Northern Illinois University, Major: Psychology	2009

PROGRAM, RESEARCH, & CLINICAL LEADERSHIP

Founder & Director, VAR Lab: The Emerging Technologies Hub

Penn State University, The Behrend College | 2019 – Present

- ❖ Own product vision and portfolio roadmap, translating partner problem statements into study plans, feature specifications, release criteria, adoption support, and executive-ready evidence for clinical, educational, and community settings.
- ❖ Define milestones, delivery SLAs, and agile operating rhythms; track throughput, quality metrics, and delivery status across concurrent programs; present findings with clinical and operational clarity to senior leadership and external stakeholders.
- ❖ Scope consulting-style product engagements with external partners, converting ambiguous requirements into structured project plans with clear timelines, success criteria, and evaluation checkpoints.
- ❖ Built portfolio QA infrastructure across SOPs, stage gates, escalation tiers, HIPAA-aware data workflows, IRB compliance protocols, and reproducible documentation systems supporting auditability across high-volume concurrent deliverables.
- ❖ Design and run user research, focus groups, and structured data collection to inform product iteration; align evaluation checkpoints to clinical decision-making and user needs.
- ❖ Secured \$1,395,777 across grants, student awards, donations, and visiting-scholar support by building structured business cases, value-creation models, and phased delivery plans with clear KPIs tied to measurable outcomes.
- ❖ Built and direct a self-initiated three-continent research and innovation network spanning the US, South Korea, and Brazil, including a formal five-year invited MOU with Sungkyunkwan University's National Program of Excellence in AI; full detail in International Research Leadership section.

Havyn (early-stage neuro-AI wellbeing)

2025 – Present

Role: Founding Scientific & Clinical Advisor

- ❖ Provide clinical oversight and translate evidence-based frameworks for product architecture, guardrails, and responsible growth.

Licensed Clinical Psychologist, Pennsylvania (License #PS020200)

2024 – Present

- ❖ Deliver structured clinical evaluations using standardized rubrics, calibrated judgment, and evidence-based decision frameworks for complex psychological presentations.

- ❖ Conduct integrative and neuropsychological evaluations using standardized assessment batteries (WAIS/WISC, WIAT, D-KEFS, CPT-3, BRIEF-A/2, BASC-3, Conners/CAARS/ADHD-RS, ASRS, SRS-2, ABAS-3); administer effort/malingering screens; author comprehensive reports with differential diagnoses and actionable recommendations.
- ❖ Supervise and calibrate assessment workflows and rater training, enforcing administration fidelity, scoring accuracy, inter-rater reliability, and report quality across standardized clinical batteries.
- ❖ Build and standardize assessment batteries, report templates, and evaluation SOPs with QA gates (consent, privacy, testing environment, identity verification, test security); run periodic audit and revision cycles to prevent scoring drift and maintain calibration.
- ❖ Design and maintain HIPAA-aligned clinical workflows and regulation-aware QA processes ensuring compliance, patient safety, and data integrity.
- ❖ Coordinate multidisciplinary clinical work across psychologists, therapists, caregivers, and institutional stakeholders; monitor outcomes and implement performance-improvement cycles where data support change.

Associate Professor of Clinical Psychology, Humanities & Social Sciences 2024 – Present
Assistant Professor of Clinical Psychology, Humanities & Social Sciences 2018 – 2024
 Penn State University, The Behrend College

- ❖ Serve as a senior applied behavioral-science and neurodiversity expert, translating clinical expertise into scalable products, programs, and institutional partnerships.
- ❖ Pioneered programs and partnerships that evolved into a multi-sector emerging technology portfolio, establishing the foundational strategy for the VAR Lab.
- ❖ Train approximately 15 clinical graduate students per year in applied practice, supervision, documentation, ethics, and clinical decision-making; career-wide clinical training and mentoring now exceeds 150 graduate students.

Interim Program Coordinator, Clinical Psychology MA Program Fall 2023
 Penn State University, The Behrend College

- ❖ Directed operations for a graduate program, managing program roadmap, curriculum development, resource allocation, and stakeholder engagement to support departmental goals.

INTERNATIONAL RESEARCH LEADERSHIP & GLOBAL AI PARTNERSHIPS

Built and lead a three-continent research and innovation network spanning the United States, South Korea, and Brazil, including a formal five-year SKKU partnership, recurring international visiting scholars, a hosted Fulbright Scholar, collaborative publications, and active partner laboratories.

National Program of Excellence in AI (Republic of Korea) 2025 – Present
Anchor Partner: Sungkyunkwan University (SKKU), Seoul, South Korea **Instrument:** Five-Year Memorandum of Understanding

- ❖ Formally invited to participate in South Korea's National Program of Excellence in AI through a five-year Memorandum of Understanding with Sungkyunkwan University. The partnership was initiated by SKKU following its review of the VAR Lab's applied AI portfolio rather than through an open application process.
- ❖ The MOU establishes a formal five-year framework for collaborative AI research, joint academic programming, faculty collaboration, hackathons, and student exchanges between SKKU and Penn State Behrend.

- ❖ Built a recurring visiting-scholar exchange with SKKU. The Fall 2024 exchange with Jiheun (Daizy) Hong developed into continuing cross-institutional research and coauthorship, including a BMJ Open RCT protocol and an accepted ACM UIST 2026 full paper on the NicoCall personalized future-self intervention for nicotine cessation.
- ❖ Expanded the exchange for Fall 2026 with two additional SKKU visiting scholars conducting collaborative work with VAR Lab in clinical AI, immersive technology, and mental-health applications.

Hosted Fulbright Scholar (Federative Republic of Brazil)

2025 – 2026

Scholar: Bibiana Mayer Steckel, Director, NERV Lab (Neuroscience and Virtual Reality Laboratory), Porto Alegre **Discipline:** Occupational therapy, sensory integration, neuroscience-of-VR

- ❖ Selected by an externally competitive Fulbright Scholar as the U.S. host of choice after Steckel considered multiple U.S. institutions. In a published Penn State Behrend feature, Steckel attributed her selection to my expertise, enthusiasm for international collaboration, and the VAR Lab's resources.
- ❖ The collaboration has direct translational applications to VR-based therapy for children with autism, cerebral palsy, and sensory integration disorders, advancing equitable access to specialized clinical care for families in southern Brazil who cannot otherwise reach major-city clinics.
- ❖ The partnership has produced lasting institutional connections between the NERV Lab in Porto Alegre and the VAR Lab at Penn State Behrend, creating an ongoing exchange channel beyond Steckel's individual Fulbright term.

Trans-Continental R&D Network: United States, South Korea, Brazil

2023 – Present

International Network: Penn State Behrend (US); Sungkyunkwan University (South Korea); UFCSPA/NERV Lab (Brazil) and UFES/LAFEC (Brazil)

- ❖ Lead cross-border research and development relationships spanning three continents, connecting Penn State Behrend with Korean AI research and Brazilian clinical neuroscience, rehabilitation, and VR research partners.
- ❖ Coordinate visiting scholar programs, collaborative research planning, joint publications, and institutional relationship management across the network, with coordination and stakeholder-alignment functions performed in a resource-constrained academic environment without dedicated international affairs staff.
- ❖ Built the network from bilateral faculty relationships and individual research collaborations into formal agreements, recurring visiting-scholar exchanges, collaborative publications, and enduring partner-lab ties through sustained relationship development and demonstrated mutual research value.
- ❖ Expanded the Brazil network to a second university through an inbound faculty referral, developing a collaboration with the Federal University of Espírito Santo (UFES) and LAFEC-UFES around a proposed CAPES-supported doctoral research exchange in VR-based social-skills intervention research for children on the autism spectrum.

HONORS AND AWARDS

2026 – Provost Award for Excellence in Scholarship and Creative Activity, Penn State University
 2025-2026 – Penn State Council of Fellows Faculty Research Award
 2025-2026 – Penn State Behrend Distinguished Award for Excellence in Research
 2018–2025 – Scholarly Fund Awards, Penn State Behrend (7 awards)
 2020, 2023, 2024 – Penn State Behrend Open Lab Awardee

2021 – "40 Under 40" Innovators, entrepreneurs, and leaders helping move us into the future, Erie Reader, Awardee
 2019 – Finalist for Best Paper at the 14th International Conference on the Foundations of Digital Games
 2013 – 2017 - Lillian Portenier Fund
 2017 – Wyoming NASA Space Grant – Travel Fund Award
 2016 – Academic Affairs Ph.D. Summer Augmentation Award, University of Wyoming
 2016 – Scholarship Committee – Dissertation Funding Award), University of Wyoming
 2014 – 1st Place for Outstanding Student Research, Wyoming Psychological Association
 2014 – Paul Stock Grant-In-Aide Award
 2014 – Graduate Education - Travel Funding Award, University of Wyoming
 2011 – Presidential Graduate Assistantship, Eastern Illinois University

FUNDING & INSTITUTIONAL VALUE GENERATED

2018 – PRESENT

Total realized and documented in-kind institutional value managed (labor, facilities, visiting scholars): ~\$2.50M

Grants, awards, gifts, and external support secured: \$1,395,777

- ❖ Grants funded (38; \$1,185,796)
- ❖ Faculty-sponsored graduate student research awards: (9; \$48,500)
- ❖ Faculty-sponsored undergraduate student researcher awards: (7; \$13,200)
- ❖ Corporate donations: ~\$60,550
- ❖ Private donations: \$23,395
- ❖ Visiting scholar awards & external support (4 scholars; est. ~\$54,278)
- ❖ Other funded awards (7; \$10,058)

In-kind contributions: ~\$1,108,358

- ❖ Faculty donated effort (May 2019 – Present; est. ~\$685,687)
- ❖ Visiting scholar research labor (4 scholars; est. ~\$150,083)
- ❖ Facilities opportunity cost – lab & studio space (May 2019 – Sept. 2026; est. ~\$272,588)

Grant Proposals Under Review (Total: 2; \$133,654)

Character Be About It. *Creating and pilot testing the feasibility, acceptability, and effectiveness of an immersive VR adaptation of the Character Be About It curriculum.* **Role:** Co-Principal Investigator, **Amount:** \$108,654

MWRI-PSB Collaborative Research Seed Grant Charter. Dataset Development towards Objective Screening for Perinatal Mood and Anxiety Disorders (PMAD) via VR-Integrated Gait Analysis, **Role:** Co-Principal Investigator, **Amount:** \$25,000

Grants Funded (Total: 38; \$1,185,796)

OVPC: AI Discovery Initiative Seed Funding Program (2025). *Sustainable local LLM infrastructure for XR-based mental health and education.* **Role:** Principal Investigator, **Amount:** \$5,000

COP: Department of Community and Economic Development (2025). *Virtual and augmented reality in plastic processing.* **Role:** Co-Principal Investigator, **Amount:** \$199,577

School of Humanities and Social Sciences Endowment Grant (2025). *Pilot testing a VR sensory integration for children on the autism spectrum,* **Role:** Principal Investigator, **Amount:** \$1,000

School of Humanities and Social Sciences Endowment Grant (2025). *Wages for He&SS Student Researchers in VAR Lab,* **Role:** Principal Investigator, **Amount:** \$4,000

- PSB Research/Creative Activities Seed Grant (2025). *Towards development of application-specific VR module to detect mental health conditions*. **Role:** Co-Principal Investigator, **Amount:** \$15,000
- School of Humanities and Social Sciences Endowment Grant (2025). *Travel and conference funding for CPSY graduate students*, **Role:** Principal Investigator, **Amount:** \$5,000
- School of Humanities and Social Sciences Endowment Grant (2025). *Guinness World Record supplies and promo items*, **Role:** Principal Investigator, **Amount:** \$1,000
- Snap-Tite Hose Inc. (2025). *Immersive 360 Virtual Tour of the Snap-Tite Hose Q&A Department*. **Role:** Principal Investigator, **Amount:** \$12,244
- Erie Community Foundation (2024). *Landing Place: A free, personalized, and evidence-based mental health application for Erie*. **Role:** Principal Investigator, **Amount:** \$45,000
- PSB Research/Creative Activities Seed Grant (2024). *Development of Advanced Machine Learning Algorithms for Improved Age-Invariant Face Recognition (AIFR)*. **Role:** Co-Principal Investigator, **Amount:** \$15,000
- School of Humanities and Social Sciences Endowment Grant (2022-2024). *Participant funding for Landing Place Focus Group*, **Role:** Principal Investigator, **Amount:** \$1,000
- Great Lakes Restoration Initiative, U.S. Fish and Wildlife Service (2023). *Groundwater and nutrient inputs, sequestration and direct and indirect fluxes to Lake Erie coastal waters associated with viticultural activities, Erie County, PA*. **Role:** Co-Principal Investigator, **Amount:** \$115,212
- The Penn State Institute for Computational and Data Sciences Seed Grant (2023). *Novel techno-social approaches for making VR accessible*. **Role:** Principal Investigator, **Amount:** \$55,200
- Behrend 75th Anniversary Planning Committee (December 2022). *Creation of immersive experiences for the 75th anniversary celebrations*. **Role:** Principal Investigator, **Amount:** \$19,871
- Penn State Teaching and Learning with Technology (2023-2024). *VAR Lab graduate assistantship*. **Role:** Principal Investigator, **Amount:** \$52,771
- Knowledge Park, Corporate Engagement Fund (2023-2024). *Catalyzing immersive solutions for local businesses: Bridging academic-industry interests Creating a robust innovation ecosystem in Northwestern Pennsylvania*. **Role:** Principal Investigator, **Amount:** \$10,000
- Behrend College, School of Humanities and Social Sciences, Black School of Business, School of Engineering, and School of Science (2022-2024). *Investment from PSUB administration and all four schools to fund operations of VAR Edu for Academic Years 22/23 and 23/24*. **Role:** Principal Investigator, **Amount:** \$50,000
- Black School of Business Faculty (2022-2024). *Seed funding from six BSOB faculty to hire Behrend students as interns within VAR Lab to work on BSOB faculty projects*, **Role:** Principal Investigator, **Amount:** \$10,000
- School of Humanities and Social Sciences Endowment Grant (2022-2023). *The feasibility of bringing the world to Penn State students through the use of low-cost consumer-grade immersive content capture kits*, **Role:** Principal Investigator, **Amount:** \$4,500
- Penn State University Learning Spaces Leadership Committee (2022-2023). *VAR Edu learning spaces improvement proposal*. **Role:** Co-Principal Investigator, **Amount:** \$99,964
- MWRI-PSB Collaborative Research Seed Grant Charter (2021-2023). *Exploration of the asymptomatic bacteriuria knowledge gap through Amazon Mechanical Turk and Patient Stakeholder Perspectives*, **Role:** Co-Investigator, **Amount:** \$25,000
- Commonwealth of PA Invent Penn State Fiscal Year 2023-Erie (2023). *Development of an immersive, digital wellness application*. **Role:** Subrecipient Principal Investigator, **Amount:** \$5,555.55
- Mary Behrend Cultural Fund, Penn State (2023). *Hosting an immersive experience-based tournament for faculty and students at Behrend*. **Role:** Principal Investigator, **Total Amount Requested:** \$500.00, **Total Amount Provided:** **Amount:** \$1,050

- School of Humanities and Social Sciences Endowment & Director Endowment Grants (2022). *Acquisition of a VR treadmill to examine its functionality as a tool for immersive integrations in academia, research, and outreach*, **Role:** Co-Principal Investigator, **Amount:** \$1,926
- Black School of Business Endowment Grant (2022). *Infrastructural Investment for VAR Lab and VAR Edu*. **Role:** Principal Investigator, **Amount:** \$33,374.55
- PSB Black School of Business & School of Engineering (2021-2022). *Start-up funding for VAR Edu to test the feasibility and effectiveness of integrating immersive reality assignments into business and engineering courses*. **Role:** Principal Investigator, **Amount:** \$7,280.81
- Great Lakes Restoration Initiative, U.S. Fish and Wildlife Service (2022). *GLRI AISMP FY22 – SNW* (PI: Sarah Whitney), **Amount:** \$799,794. **Project:** Using drones and machine learning to help manage aquatic invasive species. **Role:** Subrecipient Co-Principal Investigator, **Amount:** \$191,950.56
- Hagen History Center (2022). *Immersive Reality Teaching & Research Project*, **Role:** Principal Investigator, **Amount:** \$35,000
- PSB Research/Creative Activities Seed Grant (2021). *Expanding VAR Lab's Collaboration With the Hagen History Center to Provide Innovative and Immersive Access to Erie's History*. **Role:** Principal Investigator, **Amount:** \$15,000
- Mary Behrend Cultural Fund, Penn State (2021). *Hardware support for the development of VAR Edu*. **Role:** Co-Principal Investigator, **Total Amount Requested:** \$500.00, **Total Amount Provided:** \$600.00
- School of Humanities and Social Sciences & the Office of Strategic Communication (2021). *Expanding VAR Lab Capabilities: Acquisition of a Professional Grade 3D, 360° Camera and Spatial Audio Recording Microphone*. **Role:** Principal Investigator, **Amount:** \$5,000
- Erie County Gaming Revenue Authority Grant (2020). *Establishment of the Northwest Pennsylvania Innovation Beehive Network* (PI: Amy Bridger), **Amount:** \$200,000. **Project:** Preventing the Spread of COVID-19 in the Lab: *Acquisition of a Hospital Grade UVC Hygienic System for XR Headsets*, **Role:** Implementation, **Amount:** \$1,734
- Erie County Gaming Revenue Authority 2020 Covid Immediate Human Relief Fund (2020). *Addressing COVID-19 Related Mental Health Concerns in Erie Residents through Development of an Engaging Mobile Device App*, **Role:** Co-Principal Investigator, **Amount:** \$13,034
- Erie County Gaming Revenue Authority Ignite Erie Grant (2020). *Creating a robust innovation ecosystem in Northwestern Pennsylvania* (PI: Ralph Ford), **Amount:** \$775,000. **Project:** *Expanding VAR Lab Capabilities: Acquisition of a Faro Focus s70 Lidar Scanner*, **Role:** Implementation, **Amount:** \$37,000
- John M. Lilley & Hammermill Sponsored Research Grant (2020-2022). *Belonging to Behrend: A Digitally Immersive Historical Perspective*, **Role:** Principal Investigator, **Amount:** \$29,952
- School of Humanities and Social Sciences Endowment Grant (2019). *Development of an Augmented and Virtual Reality Research Lab*, **Role:** Principal Investigator, **Amount:** \$3,000
- Erie County Gaming Revenue Authority Grant (2019 – 2022). *Establishment of the Northwest Pennsylvania Innovation Beehive Network* (PI: Amy Bridger), **Amount:** \$200,000. **Project:** *Development of the Virtual and Augmented Reality Lab (VAR Lab)*, **Role:** Implementation, **Amount:** \$18,000
- Penn State Center for Online Innovation in Learning Research Initiation Grant (2017 – 2018). *The Development of a Computer Simulated Child Abuse Screening Tool (CSI-CAST)*, **Role:** Co-Investigator (PI: Melanie Hetzel-Riggin), **Amount:** \$40,000

Faculty-Sponsored Graduate Student Research Awards Funded (9 total; \$48,500)

- Welsbacher, A., M.A. (Applied Clinical Psychology Master's Program). Funding Source: Penn State J. Jeffrey and Ann Marie Fox Graduate School, Fox Degree Completion Award, 2025–2026 academic year. Amount: \$10,000. Awarded June 2026.
- Manelick, A., MA. (Applied Clinical Psychology Masters Program). Stage of Completion: Completed. Funding Source: Penn State J. Jeffrey and Ann Marie Fox Graduate School Fox Degree Completion Award \$10,000.00. (June 2026).
- Welsbacher, A., MA. (Applied Clinical Psychology Masters Program). Stage of Completion: In Progress. Funding Source: ACPSY Research Scholarship \$1,000.00. (January 2026 - July 2026).
- Khairi, A., MA. (Applied Clinical Psychology Masters Program). Stage of Completion: In Progress. Funding Source: ACPSY Research Scholarship \$1,000.00. (January 2026 - July 2026).
- Manelick, A., MA. (Applied Clinical Psychology Masters Program). Stage of Completion: Completed. Funding Source: Penn State J. Jeffrey and Ann Marie Fox Graduate School Student Persistence Scholarship \$8,500.00. (May 2025 – August 2025).
- Nazneen, F., MA. (Applied Clinical Psychology Masters Program). Stage of Completion: Completed. Funding Source: ACPSY Research Scholarship \$1,000.00. (January 2023 - July 2023).
- Rametse, L., MA. (Applied Clinical Psychology Masters Program). Stage of Completion: Completed. Funding Source: ACPSY Research Scholarship \$8,000.00. (August 2022 - July 2023).
- Rametse, L., MA. (Applied Clinical Psychology Masters Program). Stage of Completion: Completed. Funding Source: ACPSY Research Scholarship \$8,000.00. (August 2021 - July 2022).
- Kotsiou, A., MA. (Applied Clinical Psychology Masters Program). Stage of Completion: Completed. Funding Source: ACPSY Research Scholarship \$1,000.00. (January 2020 - July 2020).

Faculty-Sponsored Undergraduate Student Researcher Awards Funded (7 total; \$13,200)

- Ganji, A., BS. *Exploration of wellbeing and the Landing Place smartphone app.* (Psychology). Stage of Completion: In Progress. Funded by: Penn State Behrend, Funding Source: Undergraduate Student Academic Year Research Grant \$1,200. (November 2025 - May 2026).
- Linden, L., BS. *UX/UI testing of the Landing Place smartphone app.* (Psychology). Stage of Completion: Completed. Funded by: Penn State Behrend, Funding Source: Undergraduate Student Academic Year Research Grant \$1,200. (November 2024 - May 2025).
- Juriasingani, E., BS. *Virtual/ Augmented Reality Lab: A synthesis of the literature and a pilot project to create immersive environments through CAD and Lidar scanning.* (Psychology). Stage of Completion: Completed. Funded by: Penn State Behrend, Funding Source: Undergraduate Student Academic Year Research Grant \$1,200. (August 2020 - May 2021).
- Tran, H., BS. *Virtual/ Augmented Reality Lab: A comprehensive public relations research inquiry for promotional feasibility.* (Communications). Stage of Completion: Completed. Funded by: Penn State Behrend, Funding Source: Undergraduate Student Academic Year Research Grant \$1,200. (August 2020 - December 2020).
- Juriasingani, E., BS. *Virtual/ Augmented Reality Lab: A synthesis of the literature and a pilot project to create immersive environments through CAD and Lidar scanning.* (Psychology). Stage of Completion: Completed. Funded by: Penn State Behrend, Funding Source: Undergraduate Student Summer Semester Research Fellowship \$3,200. (June 2020 - August 2020).
- Tran, H., BS. *Virtual/ Augmented Reality Lab: A comprehensive public relations research inquiry for promotional feasibility.* (Communications). Stage of Completion: Completed. Funded by: Penn State Behrend, Funding Source: Undergraduate Student Summer Semester Research Fellowship \$3,200. (June 2020 - August 2020).
- Juriasingani, E., BS. *Virtual/ Augmented Reality Lab: A synthesis of the literature and a pilot project to create immersive environments through CAD and Lidar scanning.* (Psychology). Stage of Completion:

Completed. Funded by: Penn State Student Engagement Network, Funding Source: Summer 2020 Remote Innovation Grant \$2,000. (May 2020 - June 2020).

Corporate Donations (\$60,550)

Private Donations (\$23,395)

Visiting Scholar Awards (4 total: \$54,278)

Other Funded Awards (Total: \$10,058)

In-Kind Commitment – Visiting Scholars (4 total; est.: \$150,083)

In-Kind Commitment – Faculty Time (May 2019 – Present, est.: \$685,687)

Facilities Opportunity Cost – Industrial Warehouse Lab Space (May 2019 - Jan 2026; est.: \$272,588)

- ❖ Documented foregone market rent includes approximately \$34,000/year for ~2,000 sq. ft. of industrial warehouse research space allocated to VAR Lab, plus two Merwin studio spaces valued at \$500/month each.

PUBLICATIONS

*Indicates co-authors who were undergraduate or graduate students under my supervision

Publications In-Preparation (Total: 2)

- *Steckel, B. M., Nazareth, A. C. P., Bizarro, L., **Shelton, C. R.**, Oliveira, A. Usability of immersive virtual reality exercises for amputation rehabilitation: Allied health professionals' perspectives.
- *Steckel, B. M., Nazareth, A. C. P., Bizarro, L., **Shelton, C. R.**, Oliveira, A. Immersive Virtual Reality for Sensory Integration in Autism Spectrum Disorder: Protocol for a Randomized Clinical Trial.

Publications Under Submission (Total: 2)

- *Steckel, B. M., Viegas, F. M., da Silva, Y., **Shelton, C. R.**, Oliveira, A. A., & Gluz, J. C. (under review). Translating evidence-based therapy into immersive virtual reality: A design science research framework for digital health intervention design.
- *Steckel, B. M., Ferreira, J., Morgenstern, N. B., dos Santos, R. C., Viegas, F. M., da Silva, Y., Pereira, H. T. B., **Shelton, C. R.**, Gluz, J. C., Oliveira, A. (under review). Bridging sensory integration and immersive virtual reality in autism spectrum disorder: A narrative review.

Peer-Reviewed Publications (Total: 23)

- *Hong, J., Seo, J., Kim, D., **Shelton, C. R.**, & Oh, H. (in press). What if you could call your future self? NicoCall as a personalized future-self video call for nicotine cessation. In *Proceedings of the 39th Annual ACM Symposium on User Interface Software and Technology (UIST '26)*. Association for Computing Machinery.
- *Orange, R. M., *Steckel, B. M., & **Shelton, C. R.** (in press). Development of a child-friendly constraint-induced movement cast using 3D scanning and 3D printing. In S. Hussain, M. A. B. U. Rahim, A. A. Khan, S. U. R. Khan, T. Kurzweg, N. Ibrahim, & M. Ahmad (Eds.), *Software engineering of emerging technologies: Second International Conference on Software Engineering of Emerging Technologies, SEET 2026, Behrend, PA, USA, August 10–11, 2026, proceedings, Part I* (Communications in Computer and Information Science, Vol. 3125). Springer.

- Bradley, M. S., Hitzeman, A., Hetzel-Riggin, M. D., **Shelton, C. R.**, & Macdonald, C. (2026). Asymptomatic bacteriuria: A qualitative exploration of barriers to acceptance. *Urogynecology*. <https://doi.org/10.1097/SPV.0000000000001800>
- *Hong, J., **Shelton, C. R.**, & Oh, H. (2025). Randomized controlled trial of VR-based observation meditation with AI Coaching for stress reduction: A study protocol for 'Otti'. *BMJ Open*. <https://doi.org/10.1136/bmjopen-2024-097236>
- Bradley, M. S., Irwin, A., Hetzel-Riggin, M. D., **Shelton, C. R.**, & Macdonald, C. (2025). Urinary tract infection symptom management in postmenopausal women: A qualitative exploration. *Menopause*. Advance online publication. <https://doi.org/10.1097/gme.0000000000002609>
- Hartung, C., Lefler, E., Abu-Ramadan, T. M., Stevens, A. E., Serrano, J., Miller, E. A., & **Shelton, C.** (2025). A call to analyze sex, gender, and sexual orientation in psychopathology research: An illustration with ADHD and internalizing symptoms in emerging adults. *Journal of Psychopathology and Behavioral Assessment*, 47, Article 18. <https://doi.org/10.1007/s10862-024-10188-3>
- Bradley, M. S., Hetzel-Riggin, M. D., Knight, J., Murillo, A., Zyczynski, H., & **Shelton, C. R.** (2025). Online search strategies and results from a crowdsourced survey on asymptomatic bacteriuria. *Urogynecology*, 31, 43-50. <https://doi.org/10.1097/SPV.0000000000001500>
- Lefler, E. K., Tabler, J., Abu-Ramadan, T., Stevens, A. E., Serrano, J. W., **Shelton, C. R.**, & Hartung, C. M. (2023). Sex, gender, and sexual orientation in psychological research: Exploring data trends & researcher opinions. *Psychological Reports*. Advance online publication. <https://doi.org/10.1177/00332941231199959>
- Sibley, M. H., **Shelton, C. R.**, Garcia, I., Monroy, J., Hill, D. M., Johansson, M., Link, K., Greenwood, L., Antunez, G. T., & Francisco, J. C. R. (2023). Are there long-term effects of behavior therapy for adolescent ADHD?: A qualitative study. *Child Psychiatry and Human Development*, 54, 985–996. <https://doi.org/10.1007/s10578-021-01294-4>
- LaCount, P. A., Zulauf-McCurdy, C. A., **Shelton, C. R.**, Morrow, A. S., Zhao, X., Sibley, M. H., & Arnold, L. E. (2023). Systematic review & meta-analysis: Safety and efficacy of complementary and alternative treatments for pediatric attention-deficit/hyperactivity disorder. *Journal of Developmental & Behavioral Pediatrics*, 44, e322-e332. <https://doi.org/10.1097/DBP.0000000000001184>
- Shelton, C. R.** & Hartung, C. M. (2022). Feasibility and acceptability of an internet-based intervention for emerging and young adults with ADHD. *Journal of Technology in Behavioral Science*, 7, 428-438. <https://doi.org/10.1007/s41347-022-00256-4>
- Hartung, C. M., **Shelton, C. R.**, & Canu, W. H. (2022). Proposed terminology to distinguish Adult-Onset from Late-Identified ADHD: A preliminary effort in a large survey of adults aged 18 to 80. *The ADHD Report*, 30, 1-10. <https://doi.org/10.1521/adhd.2022.30.6.1>
- *Lee, C. A., *Goh, P. K., **Shelton, C. R.**, & Hartung, C. M. (2022). Networks of ADHD and SCT symptoms in emerging adulthood. *Journal of Attention Disorders*, 26, 991-1000. <https://doi.org/10.1177/10870547211045743>
- *Kotsiou, A., Juriasingani, E., Maromonte, M., Marsh, J., **Shelton, C. R.**, Zhao, R., & Elliott, L. J. (2021). Interdisciplinary approach to a coping skills app: A case study. *The Journal of Interactive Technology & Pedagogy*. <https://jitp.commons.gc.cuny.edu/interdisciplinary-approach-to-a-coping-skills-app-a-case-study/>
- Shelton, C. R.**, *Kotsiou, A., & Hetzel-Riggin, M. D. (2021). Digital Mental Health Interventions: Impact and Considerations. In *Human Factors Issues and the Impact of Technology on Society* (pp. 180-210). IGI Global. <https://doi.org/10.4018/978-1-7998-6453-0.ch008>

- Shelton, C. R.**, Addison, W., & Hartung, C. M. (2019). ADHD and SCT symptomatology in relation to college students' use of self-regulated learning strategies. *Journal of Attention Disorders*, 23, 1719-1728. <https://doi.org/10.1177/1087054717691134>
- Hartung C. M., Lefler, E. K., Canu, W. H., Stevens, A. E., Jaconis, M., LaCount, P. A., **Shelton, C. R.**, Leopold D., & Willcutt, E. G. (2019). DSM-5 and other symptom thresholds for ADHD: Which is the best predictor of impairment in college students? *Journal of Attention Disorders*, 23, 1637-1646. <https://doi.org/10.1177/1087054716629216>
- Zhao, R., **Shelton, C. R.**, Hetzel-Riggin, M. D., LaRiccia, J., Louchart, G., Meanor, A., & Risser, H. J. (2019) *Knowledge Assessment: Game for Assessment of Symptoms of Child Physical Abuse*. Proceedings of the 14th International Conference on the Foundations of Digital Games, San Luis Obispo, California, USA. <https://doi.org/10.1145/3337722.3337747>
- Stevens, A. E., Hartung, C. M., **Shelton, C. R.** & LaCount, P. A. (2019). The effects of a brief organization, time management, and planning intervention for at-risk college freshman. *Evidence-Based Practice in Child and Adolescent Mental Health*, 4, 201-218. <https://doi.org/10.1080/23794925.2018.1551093>
- LaCount, P. A., Hartung, C. M., **Shelton, C. R.**, & Stevens, A. E. (2018). Efficacy of an organizational skills intervention for college students with ADHD symptomatology and academic difficulties. *Journal of Attention Disorders*, 22, 356–367. <https://doi.org/10.1177/1087054715594423>
- LaCount, P. A., Hartung, C. M., **Shelton, C. R.**, Clapp, J. D. & Clapp, T. K. W. (2015). Preliminary evaluation of a combined group and individual treatment for college students with attention-deficit/hyperactivity disorder. *Cognitive and Behavioral Practice*, 22, 152-160. <https://doi.org/10.1016/j.cbpra.2014.07.004>
- Crouch, J. L., **Shelton, C. R.**, Bardeen, J. R., Hiraoka, R., Milner, J. S., & Skowronski, J. J. (2012). Does attentional control mediate the association between adverse early experiences and child physical abuse risk?. *Journal of Family Violence*, 27, 97-103. <https://doi.org/10.1007/s10896-011-9406-0>
- Crouch, J. L., Irwin, L. M., Wells, B. M., **Shelton, C. R.**, Skowronski, J. J., & Milner, J. S. (2012). The *Word Game*: An innovative strategy for assessing implicit processes in parents at risk for child physical abuse. *Child Abuse & Neglect*, 36, 498-509. <https://doi.org/10.1016/j.chiabu.2012.04.004>

Invited Articles, Technical Reports, & Professional Publications (Total: 6)

- *Orange, R. M., & **Shelton, C. R.** (2026, August 17). Field metrology captures high-res scan of 'untouchable' Liberty Bell [Invited article]. *Laser Focus World*. <https://www.laserfocusworld.com/test-measurement/article/55397568/field-metrology-captures-high-res-scan-of-untouchable-liberty-bell>
- Shelton, C. R.** (2026, July 3). Guest post: The Philadelphia Liberty Bell by VAR Lab @ Penn State Behrend: How faculty & students captured an American icon and released it to the world [Invited article]. *The Spatial Heritage Review*. <https://nebulousflynn.substack.com/p/the-philadelphia-liberty-bell-by>
- Shelton, C. R.**, *Jacobs, M. A., & *Cass, K. (2022). *VAR Edu: Synopsis, impact, & future directions (AY22-23)* [Technical Report].
- Shelton, C. R.** & Sachsenmeier, J. F. (2022). *VAR Lab satellite research and community outreach center at Three Forts Presque Isle* [White paper].
- Kukal, M., Centinari, M., Hickey, C., **Shelton, C. R.**, & Irmak, S. (2022). *PA vineyARd: Facilitating site selection, management, and storytelling for Pennsylvania grape and wine producers using augmented reality* [Concept paper].

Kukal, M., Fathel, S., Fetzer, L. M., He, L., Irmak, S., Preisendanz, H. E., **Shelton, C. R.**, & Irmak, S. (2022). *Augmented reality (AR) for enhancing integrated research and extension in agricultural and natural resources engineering* [Concept paper].

Panels, Symposia, Webinars, and Workshops (Total: 42)

*Seo, J., Park, J., Koch, M., Frantz, J., Fisher, A. C., Welsbacher, A., & Shelton, C. R. (2026, October 5). *Building trust into health AI* [Discussion table; presented by Shelton, C. R. & Seo J.]. AI and Mental Health Conference, Michigan Institute for Data and AI in Society (MIDAS), University of Michigan, Ann Arbor, MI.

*Hong, J., Seo, J., Kim, D., **Shelton, C. R.**, & Oh, H. (2026, November). *What if you could call your future self? NicoCall as a personalized future-self video call for nicotine cessation* [Accepted paper presentation]. To be presented at the 39th Annual ACM Symposium on User Interface Software and Technology (UIST '26), Detroit, MI.

*Orange, R. M., *Steckel, B. M., & **Shelton, C. R.** (2026, August 10). *Development of a child-friendly constraint-induced movement cast using 3D scanning and 3D printing* [Idea and Vision paper presentation; presented by C. R. Shelton]. International Conference on Software Engineering of Emerging Technologies (SEET 2026), Erie, PA.

Shelton, C. R. (2025, April 02). *SPARK* [Invited Panel]. Presented at the SPARK Faculty Panel, Pennsylvania State University, Online.

*Khairi, A., *Sokeechand, R., *Manelick, A. M., & **Shelton, C. R.** (2025, March 22). *Virtual reality to improve inclusivity for international students* [Panel]. Presented at the 2025 Symposium for Teaching and Learning with Technology, Penn State University, State College, PA.

Shelton, C. R. (2025, February 12). *Research readiness* [Invited Panel]. Presented at the Research Readiness Faculty Panel, Pennsylvania State University, Online.

Shelton, C. R. (2024, November 27). *The magic of immersive experiences* [Invited Presentation]. Presented at the Lunch Hour Series, Pennsylvania State University, Erie, PA.

Shelton, C. R. (2024, September 25). *Research readiness* [Invited Panel]. Presented at the Research Readiness Faculty Panel, Pennsylvania State University, Online.

Shelton, C. R., *Cass, L., & *Hattab, A. (2024, May 17). *Virtual reality and XR in your discipline* [Workshop]. Presented at the Spring 2024 Future Readiness Academy, New Kensington, PA.

Hart, S., *Manelick, A., Smerker, N., & **Shelton, C. R.** (2024, April 10). *Explore generative AI in Adobe Express* [Workshop]. Presented at VAR Lab, Penn State Behrend, Erie, PA.

Shelton, C. R. (2024, February 27). *Beyond reality: Virtual & augmented reality in tomorrow's world* [Invited Presentation]. Presented at the Sigma Xi Science Cafe, Erie, PA.

Getz, D. A. & **Shelton, C. R.** (2023, November 08). *3D scanning roadshow* [Workshop]. Presented at VAR Lab, Penn State Behrend, Erie, PA.

Getz, D. A. & **Shelton, C. R.** (2023, November 07). *Adobe Aero: Augmented reality creation workshop* [Workshop]. Presented at VAR Lab, Penn State Behrend, Erie, PA.

Bradley, M. S., Hetzel-Riggin, M. D., Knight, J., Murillo, A., Zyczynski, H., & **Shelton, C. R.** (2023, October 4). *Exploration of the asymptomatic bacteriuria knowledge gap through online crowdsourcing* [Presentation]. Presented at PFD Week 2023, American Urogynecologic Society, Portland, OR.

Bradley, M. S., **Shelton, C. R.**, Knight, J., Murillo, A., Zyczynski, H., & Hetzel-Riggin, M. D. (2023, October 4). *What do these urine test results mean and should I be concerned? Online search strategies and results from a crowdsourced survey* [Presentation]. Presented at PFD Week 2023, American Urogynecologic Society, Portland, OR.

- Shelton, C. R.**, Dudas, P., *Jacobs, M. A., & *Cass, K. (2023, May 18). *Immersive experiences (VR/AR/360°) and the impact across multiple disciplines* [Workshop]. Presented at the Spring 2023 Future Readiness Academy, New Kensington, PA.
- Hart, S., *Jacobs, M. A., Smerker, N., & **Shelton, C. R.** (2023, April 27). *Augmented reality creation workshop* [Workshop]. Presented at VAR Lab, Penn State Behrend, Erie, PA.
- *Jacobs, M. A., McCauley, D., & **Shelton, C. R.** (2023, March 18). *Pedagogical lessons from VAR Edu: A classroom scale VR open lab* [Panel]. Presented at the 2023 Symposium for Teaching and Learning with Technology, Penn State University, State College, PA.
- Zulauf-McCurdy, C. A., LaCount, P. A., **Shelton, C. R.**, Morrow, A. S., Zhao, X., Russell, D. A., Sibley, M. H., & Arnold, L. E. (2023, January 15). *Complementary and integrative medicine for ADHD: Navigating a confusing evidence base* [Presentation]. Presented at the 2022 American Professional Society of ADHD and Related Disorders (APSARD) Annual Meeting, Orlando, FL.
- Getz, D. A., **Shelton, C. R.**, & *Jacobs, M. A. (2022, December 1). *3D scanning roadshow* [Workshop]. Presented at VAR Lab, Penn State Behrend, Erie, PA.
- Getz, D. A., **Shelton, C. R.**, & *Jacobs, M. A. (2022, November 30). *Adobe Aero: Augmented reality creation workshop* [Workshop]. Presented at VAR Lab, Penn State Behrend, Erie, PA.
- Shelton, C. R.**, Gunnell, J., & McCauley, D. (2022, March 18). *Integrating immersive reality into the classroom at Penn State Behrend* [Panel]. Presented at the 2022 Symposium for Teaching and Learning with Technology, Penn State University, State College, PA.
- Sachsenmeier, J. F., **Shelton, C. R.**, & Hartung, T. (2022, January 20). *Beyond reality: Digital immersive media and the humanities* [Panel]. Presented at the Penn State Behrend H&SS Research and Outreach Colloquium, Erie, PA.
- Zulauf-McCurdy, C. A., LaCount, P. A., **Shelton, C. R.**, Morrow, A. S., Zhao, X., Sibley, M. H., & Arnold, L. E. (2021, November 17). *Systematic review and meta-analyses: Complementary and alternative treatments for pediatric Attention-Deficit/Hyperactivity Disorder* [Symposium]. Presented at the 55th Annual Convention of the Association for Behavioral and Cognitive Therapies, New Orleans, LA.
- Shelton, C. R.** & Sachsenmeier, J. F. (2021, October 19). *VAR Lab satellite research and community outreach center at Three Forts Presque Isle* [Invited Panel]. Presented at the Master Plan Event for the Three Forts of Presque Isle Interpretive Center, Jefferson Educational Society, Erie, PA.
- Mason, S. A., **Shelton, C. R.**, Comstock, K., & *Jacobs, M. A. (2021, June 14). *Hiking the Wintergreen Gorge* [Panel]. Presented at the virtual Penn State We Are event, University Park, PA.
- Shelton, C. R.**, Sachsenmeier, J. F., & *Juriasingani, E. (2020, August 7). *Fort LeBoeuf in VR* [Panel]. Presented at Beyond Zoom: XR for Teaching and Research in the COVID-19 Era, Zoom. <https://devstudio.dartmouth.edu/wordpress/2020/08/beyond-zoom-xr-for-teaching-and-research-in-the-covid-19-era-program/>
- *Juriasingani, E., **Shelton, C. R.**, & Sachsenmeier, J. F. (2020, August 7). *VAR Lab's practices for safely sharing XR resources such as VR headsets while trying to contain viral spread* [Panel]. Presented at Beyond Zoom: XR for Teaching and Research in the COVID-19 Era, Zoom. <https://devstudio.dartmouth.edu/wordpress/2020/08/beyond-zoom-xr-for-teaching-and-research-in-the-covid-19-era-program/>
- Hetzel-Riggin, M. D. & **Shelton, C. R.** (2019, June 19). *Women in STEM: Opportunities in psychology* [Workshop]. Presented at the Corry Higher Education Council's 18th annual "21st Century Girls" Program, Corry, PA.
- Hetzel-Riggin, M. D., Patterson, M., Taft, D., **Shelton, C. R.**, & Clay, M. (2019, May 16). *Leveraging on and off-campus partners in improving student success* [Panel]. Presented at the 2019 Western PA NACADA Drive-In: Ride the Waves, Trends in Student Success, Edinboro, PA.

- Shelton, C. R.** (2019, February 26). *When technology talks* [Invited Presentation]. Presented at the Northwest Pennsylvania Psychological Association Annual Academic Panel, Erie, PA.
- Hartung, C. M., Canu, W. H., Serrano, J. W., LaCount, P. A., Stevens, A. E., Clapp, T. W., & **Shelton, C. R.** (2018, November 15). Organization, time management, and study skills in college students with ADHD. In A. Chronis-Tuscano & M. Meinzer (Co-Chairs), *Innovations in the treatment of ADHD in college students* [Symposium]. Presented at the 52nd Annual Convention of the Association for Behavioral and Cognitive Therapies, Washington, DC.
- Zhao, R., *LaRiccia, J., *Louchart, G., *Meanor, A., Risser, H., **Shelton, C. R.**, & Hetzel-Riggin, M. D. (2018, November 13). *Gamified assessment of symptoms of child physical abuse* [Presentation]. Presented at the AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment, Edmonton, AB, Canada.
- Shelton, C. R.**, Hartung, C. M., Stevens, A. E., Serrano, J. W., & Canu, W. H. (2017, November 16). What is meant by "Late Onset" in ADHD populations? In L. E. Knouse (Chair), *"Late Onset" ADHD: What it is, what it is not, and why it matters* [Symposium]. Presented at the 51st Annual Convention of the Association for Behavioral and Cognitive Therapies, San Diego, CA.
- Shelton, C. R.**, Hartung, C. M., Garner, A. M., & Serrano, J. W. (2017, April 05). *Adult self-reports of biological sex, gender identity, and sexual orientation from a large, national sample* [Presentation]. Presented at the 21st Annual Shepard Symposium on Social Justice, Laramie, WY.
- Shelton, C. R.**, Stevens, A. E., & Hartung, C. M. (2016, October 27). *ADHD among MTurkers: A large demographic sample* [Presentation]. Presented at the 50th Annual Convention of the Association for Behavioral and Cognitive Therapies, New York City, NY.
- Stevens, A. E., **Shelton, C. R.**, & Hartung, C. M. (2016, October 27). *Improving academic performance in at-risk college freshmen* [Presentation]. Presented at the 50th Annual Convention of the Association for Behavioral and Cognitive Therapies, New York City, NY.
- Canu, W. H., Hartung, C. M., Lefler, E. K., Willcutt, E. G., Leopold, D. R., Stevens, A. E., **Shelton, C. R.**, & Ranson, L. (2016, October 27). Impairment related to sluggish cognitive tempo and ADHD in emerging adult college students. In S. P. Becker (Chair), *Toward a life span understanding of sluggish cognitive tempo (SCT): Internal and external validity of SCT in adolescents and adults* [Symposium]. Presented at the 50th meeting of the Association for Behavioral and Cognitive Therapies, New York City, NY.
- Hartung, C. M., LaCount, P. A., **Shelton, C. R.**, Stevens, A. E., & Mellow, B. L. (2016, May 01). *Cognitive-Behavioral Therapy for Adults with ADHD* [Continuing Education Workshop]. Presented at the Spring Meeting of the Wyoming Psychological Association, Casper, WY.
- Hartung, C. M., Stevens, A. E., **Shelton, C. R.**, & LaCount, P. A. (2015, November 12). *Organizational, time management and planning (OTMP) training in college students at risk for academic failure: Is OTMP effective in students with and without ADHD symptoms?* [Symposium]. Presented at the 49th Annual Convention of the Association for Behavioral and Cognitive Therapies, Chicago, IL.
- LaCount, P. A., Hartung, C. M., **Shelton, C. R.** (2014, November 20). Efficacy of an organizational intervention for college students with attention-related academic difficulties. In L. E. Knouse (Chair), *Tailoring assessment and intervention for ADHD in higher education through translational and clinical science* [Symposium]. Presented at the 48th Annual Convention of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA.
- LaCount, P. A., **Shelton, C. R.**, Clapp, T. K. W., & Hartung, C. M. (2013, November 21). *Grade-wide implementation of the Challenging Horizons Program in a middle-school* [Presentation]. Presented at the 47th Annual Convention of the Association for Behavioral and Cognitive Therapies, Nashville, TN.

Poster Presentations (Total: 37)

- *Steckel, B. M., *Orange, R., *Welsbacher, A., *Miller, M., & **Shelton, C. R.** (2026, April). *Immersive learning in pediatric rehabilitation: A virtual approach for allied health students*. Poster presented at the Teaching and Learning With Technology Symposium, State College, PA.
- *Fisher, A. C., *Orange, R., & **Shelton, C. R.** (2026, January). *ARVIS: An AI MetaHuman voice assistant framework for interactive and immersive scenarios*. Poster presented at the second annual Faculty Research Showcase, Erie, PA.
- *Shakik, A., Azeemuddin, S., & **Shelton, C. R.** (2026, January). *VR-based gait analysis for mental health screening*. Poster presented at the second annual Faculty Research Showcase, Erie, PA.
- *Khairi, A., *Sokeechand, R., *Manelick, A. M., & **Shelton, C. R.** (2025, November). *Evaluating the impact of virtual reality on mental health outcomes in international students: A preliminary study*. Poster presented at the 59th Annual Convention of the Association for Behavioral and Cognitive Therapies, New Orleans, LA.
- Abdulsalam, A. T., Housego, R., Foyle, A. M., Groh, T., **Shelton, C. R.**, & Campbell, M. (2025, October). *Monitoring coastal groundwater levels and nutrient concentrations in the surficial aquifer in Lake Erie, PA*. Poster presented at the Geological Society of America's GSA Connects 2025, San Antonio, TX.
- Bradley, M. S., Hitzeman, A., Hetzel-Riggin, M., Shelton, C. R., & Macdonald, C. (2025, February). *Asymptomatic bacteriuria: A qualitative exploration of barriers to acceptance among postmenopausal women*. Poster presented at the Society of Urodynamics, Female Pelvic Medicine and Urogenital Reconstruction SUFU 2025 Winter Meeting, Rancho Mirage, CA.
- Miller, E. A., Khairuddin, M. M., Abu-Ramadan, T. M., Serrano, J. W., Stevens, A. E., **Shelton, C. R.**, Lefler, E. K., & Hartung, C. M. (2024, November). *The importance of analyzing by sex, gender, sexual orientation, race, and ethnicity in psychopathology research*. Poster presented at the 58th Annual Convention of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA.
- *Babb, Z. A., *Manelick, A. M., *Sokeechand, R., *Gottumukkala, S., *Desai, H., & **Shelton, C. R.** (2024, November). *Functional impairment associated with diagnosed and subthreshold ADHD in adults is mediated by tech use focused on mental health*. Poster presented at the 58th Annual Convention of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA.
- *Gottumukkala, S. V., *Desai, H., & **Shelton, C. R.** (2023, November 16). *Use of virtual reality (VR) to improve mental outcomes of international students*. Poster presented at the 58th Annual Convention of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA.
- *Rametse, L., *Karnik, S., & **Shelton, C. R.** (2023, November 16). *Functional impairment in emerging adulthood: The role of onset timing of ADHD diagnosis*. Poster presented at the 57th Annual Convention of the Association for Behavioral and Cognitive Therapies, Seattle, WA.
- Lefler, E. K., Abu-Ramadan, T. M., Stevens, A. E., Serrano, J. W., **Shelton, C. R.**, & Hartung, C. M. (2023, June). *How to avoid sex-, gender-, and sexual orientation-neutral research in psychopathology: Comparing two grouping methods in a large adult survey sample*. Poster presented at the biennial meeting of the International Society for Research in Child and Adolescent Psychopathology (ISRCAP), London, England.
- Shelton, C. R.**, Hartung, C. M., & Canu, W. H. (2021, November). *Feasibility and acceptability of an Internet-based intervention for emerging and young adults with ADHD*. Poster presented at the 55th Annual Convention of the Association for Behavioral and Cognitive Therapies, New Orleans, LA.
- *Kotsiou, A. & **Shelton, C. R.** (2021, November). *Therapists' perceptions of self-disclosure as a function of their clinical experience, therapeutic orientation, and contextual factors: a mixed design*. Poster presented at the 55th Annual Convention of the Association for Behavioral and Cognitive Therapies, New Orleans, LA.

- Zulauf-McCurdy, C. A., LaCount, P. A., **Shelton, C. R.**, Morrow, A. S., Zhao, X., Sibley, M. H., & Arnold, L. E. (2021, November). *Systematic review and meta-analyses: Complementary and alternative treatments for pediatric attention-deficit/hyperactivity disorder*. Poster presented at the 55th Annual Convention of the Association for Behavioral and Cognitive Therapies, New Orleans, LA.
- *Juriasingani, E., *Larson, K., Sachsenmeier, J. F., & **Shelton, C. R.** (2021, April). *Feasibility of recreating lost sites in VR*. Poster presented at the 48th Western Pennsylvania Undergraduate Psychology Conference, Erie, PA.
- Shelton, C. R.**, Risser, H. J., Hetzel-Riggin, M. D., Zhao, R., Morford, A., Riley, T. J., & *Eichler, T. (2018, November). *Assessing the child abuse training needs of healthcare professionals: Pilot testing the Computer Simulated Interactive Child Abuse Screening Tool (CSI-CAST)*. Poster presented at the 52nd Annual Convention of the Association for Behavioral and Cognitive Therapies, Washington, DC.
- Serrano, J. W., Stevens, A. E., LaCount, P. A., **Shelton, C. R.**, Canu, W. H., Lefler, E. K., Willcutt, E. G., & Hartung, C. M. (2018, November). *Healthy lifestyle behaviors of college students with ADHD: Physical activity, sleep functioning, eating habits, and alcohol use*. Poster presented at the 52nd Annual Convention of the Association for Behavioral and Cognitive Therapies, Washington, DC.
- Stevens, A. E., **Shelton, C. R.**, Serrano, J. W., Peters, M. G., Garner, A. M., Walbridge, F. C., LaCount, P. A., & Hartung, C. M. (2017, November). *Increasing college adjustment in at-risk freshmen: A brief cognitive-behavioral intervention*. Poster presented at the 51st meeting of the Association for Behavioral and Cognitive Therapies, San Diego, CA.
- Garner, A. M., Stevens, A. E., Serrano, J. W., **Shelton, C. R.**, & Hartung, C. M. (2017, November). *DSM-5 ADHD symptom changes increase endorsement of ADHD in emerging adults*. Poster presented at the 51st meeting of the Association for Behavioral and Cognitive Therapies, San Diego, CA.
- Serrano, J. W., LaCount, P. A., Hartung, C. M., **Shelton, C. R.**, Stevens, A. E., Canu, W. H., Lefler, E. K., Leopold, D. R., & Willcutt, E. G. (2017, November). *Sleep and exercise among college students with ADHD*. Poster presented at the 51st meeting of the Association for Behavioral and Cognitive Therapies, San Diego, CA.
- Garner, A. M., Stevens, A. E., Serrano, J. W., **Shelton, C. R.**, & Hartung, C. M. (2017, April). *Do DSM-5 changes increase symptom endorsement in emerging adults with ADHD?* Poster presented at the 87th Annual Convention of the Rocky Mountain Psychological Association, Salt Lake City, Utah.
- Shelton, C. R.**, Stevens, A. E., & Hartung, C. M. (2016, October). *ADHD among MTurkers: A large demographic sample*. Discussion led at the 50th meeting of the Association for Behavioral and Cognitive Therapies, New York City, New York.
- Shelton, C. R.**, Addison, W. E., & Hartung, C. M. (2016, October). *Differences in the use of self-regulated learning strategies among college students self-reporting ADHD or sluggish cognitive tempo tendencies*. Poster presented at the 50th meeting of the Association for Behavioral and Cognitive Therapies, New York City, New York.
- Stevens, A. E., **Shelton, C. R.**, & Hartung, C. M. (2016, October). *Improving academic performance in at-risk college freshmen*. Discussion led at the 50th meeting of the Association for Behavioral and Cognitive Therapies, New York City, New York.
- Garner, A. M., Peters, M. G., **Shelton, C. R.**, Stevens, A. E., LaCount, P. A., Kanter, H. A., Canu, W. H., Lefler, E. K., Willcutt, E. G., Leopold, D., Ranson, L., & Hartung, C. M. (2016, October). *ADHD and college readiness: Mediation effects of executive functioning deficits*. Poster presented at the 50th meeting of the Association for Behavioral and Cognitive Therapies, New York City, New York.

- Shelton, C. R.**, Hartung, C. M., Wolf, K. L. H., Cleveland, C. S., Wilkowski, B. M. (2016, September). *Bullying, Victimization, and Bystanders Response to Bullying: Negative Age Trends*. Poster presented at the 12th meeting of the National Conference in Clinical Child and Adolescent Psychology, Lawrence, Kansas.
- Stevens, A. E., **Shelton, C. R.**, LaCount, P. A., Canu, W. H., Lefler, E. K., Willcutt, E. G., ... Hartung, C. M. (2016, September). *Academic Achievement and ADHD in Emerging Adult College Students: Executive Functioning and College Readiness*. Poster presented at the 12th meeting of the National Conference in Clinical Child and Adolescent Psychology, Lawrence, Kansas.
- Kanter, H. A., LaCount, P. A., Hartung, C. M., Canu, W. H., Lefler, E. K., Stevens, A. E., & **Shelton, C. R.** (2016, April). *Self-handicapping and ADHD in emerging adulthood*. Poster presented at the 86th meeting of the Rocky Mountain Psychological Association, Denver, CO.
- Stevens, A. E., Canu, W. H., Hartung, C. M., LaCount, P. A., **Shelton, C. R.**, & Lefler, E. K. (2015, November). *Negative parenting in childhood differentially affects the adjustment of college students with and without ADHD*. Poster presented at the 49th meeting of the Association for Behavioral and Cognitive Therapies Conference, Chicago, Illinois.
- Shelton, C. R.**, Addison, W., Hartung, C. M., LaCount, P. A., Stevens, A. E. (2015, July). *Self-regulated learning strategies in college students with ADHD symptoms*. Poster presented at the 17th biennial scientific meeting of the International Society for Research in Child and Adolescent Psychopathology, Portland, Oregon.
- Stevens, A. E., Ranson, L., Hartung, C. M., Canu, W. H., Lefler, E., LaCount, P. A., & **Shelton, C. R.** (2015, July). *College Readiness: Differences between students with and without ADHD*. Poster presented at the 17th biennial scientific meeting of the International Society for Research in Child and Adolescent Psychopathology, Portland, Oregon.
- LaCount, P. A., **Shelton, C. R.**, Stevens, A. E., & Hartung, C. M. (2014, October). *Treatment of college students with elevated ADHD symptomatology: Efficacy of an organization, time management, and planning skills intervention*. Poster presented at the meeting of the Wyoming Psychological Association, Jackson, Wyoming.
- LaCount, P. A., **Shelton, C. R.**, Clapp, T. K. W. & Hartung, C. M. (2013, November). *Grade-wide implementation of the Challenging Horizons Program in a middle-school*. Discussion led at the 47th meeting of the Association for Behavioral and Cognitive Therapies, Nashville, Tennessee.
- Wells, B., Irwin, L., **Shelton, C. R.**, Crouch, J. L., Skowronski, J. J., & Milner, J. S. (2011, January). *Aggression response differences between low and high risk parents for child physical abuse*. Poster presented at the 12th Annual Meeting of the Society for Personality and Social Psychology, San Antonio, Texas.
- Shelton, C. R.**, Bardeen, J. R., Hiraoka, R., Crouch, J. L., Milner, J. S., & Skowronski, J. J. (2010, July). *Attentional control and child physical abuse risk*. Poster presented at the International Family Violence and Child Victimization Research Conference, Portsmouth, New Hampshire.
- Bell, K. M., Diamond, A., Hiremath, S., Morgan, E., Reese, N., **Shelton, C. R.**, & Sherrill, A. (2010, July). *Gender differences in the mediating effects of PTSD and alcohol problems on the relationship between childhood abuse and intimate partner violence perpetration*. Poster presented at the International Family Violence and Child Victimization Research Conference, Portsmouth, New Hampshire.

RECENT FLAGSHIP INNOVATION INITIATIVE

Liberty Bell Digital Twin Project (<https://var.psu.edu/libertybell>)

2025 – Present

Role: Principal Innovation and Partnership Lead

- ❖ Led a multi-organization effort with the National Park Service and technology partners including Lenovo, FARO, Creaform, InnovMetric, and Matterport to create high-fidelity digital assets for preservation, education, public access, and future research.
- ❖ Built the partner ecosystem around the opportunity, evaluated complementary capture and processing technologies, aligned each contributor's value, and translated a technically complex effort into a nationally visible public-facing use case.
- ❖ Balanced non-contact preservation constraints, technical accuracy, public accessibility, partner attribution, long-term data stewardship, and media communication across stakeholders with different incentives and decision structures.

APPLIED AI, XR, & DIGITAL PRODUCT PORTFOLIO

† Projects grouped by thematic area. *Indicates co-authors who were undergraduate, graduate students, or Fulbright Scholars under my supervision

Digital Health & Wellness Portfolio

Code Red: Privacy-First AI Women's Health Platform

2026 – Present

Role: Faculty Sponsor / Clinical & Product Strategy Lead

Originating Developers: *Koch, M. & *Frantz, J.

- ❖ Sponsoring the next-stage development of a hackathon-winning menstrual-health tracking prototype into a privacy-first, cross-platform mobile health application. Define product direction around local-first reproductive-health data storage, on-device AI/SLM-generated insights, accessibility, user-controlled data export, and free open-source distribution, with the goal of eliminating mandatory cloud storage and subscription barriers common in commercial alternatives.

ARVIS: Local-First Embodied AI Voice Assistant Framework

2025 – Present

Role: Principal Investigator / Originator & Faculty Lead

Technical Development Leads: Noce, K., *Fisher, A. C. & *Orange, R.

- ❖ Conceived ARVIS and lead its ongoing development as a modular embodied conversational AI framework integrating speech recognition, language-model reasoning, speech synthesis, and Unreal Engine MetaHuman interfaces for real-time voice interaction. Set the overall product and research direction, in collaboration with other faculty, identify and develop application areas, and guide development in collaboration with student technical leads responsible for substantial system architecture and implementation. The local-first, modular framework is designed for adaptation across industry, workforce, clinical, educational, and community-facing applications.

"The Landing Place": AI-Driven Digital Wellness Platform (Clinical Trial)

2023 – Present

Role: Principal Investigator

Scientific & Clinical Leads: Shelton, C. R., *Rametse, L., & Elliott, L. J.

- ❖ Own end-to-end product strategy for a consumer mental health application, from initial concept through user research, feature definition, clinical safety frameworks, and clinical-trial evaluation. Define the user journey from first interaction through sustained engagement, with measurement plans tracking activation, adherence, satisfaction, and clinical outcomes. Manage compliance protocols and data governance so the product can function as a responsible support tool for users awaiting professional treatment.

LabVIS: A Virtual Sensory Integration Laboratory (IRB approved / Clinical Trial)

2025 – Present

Role: Co-Principal Investigator

Scientific & Clinical Leads: *Steckel, B., Gluz, J. C., Oliveira, A., & Shelton, C. R.

- ❖ Co-leading the design and evaluation of an IRB-approved VR application intended to help children with ASD practice sensory integration strategies.
- ❖ Use standardized measures of usability, cybersickness, immersion, and professional feedback to guide product iteration toward clinical and educational use cases.

Otti: AI-Driven VR Mindfulness Coach (NLP & Sentiment Analysis)

2024 – Present

Role: Co-Principal Investigator

Scientific & Clinical Leads: *Hong, J., **Shelton, C. R.**, & Oh, H.

- ❖ Co-authored the RCT protocol (BMJ Open, 2025; ClinicalTrials.gov NCT06704282). Designed clinical intervention logic and evaluation rubrics for an AI agent using the RoBERTa NLP model for real-time sentiment analysis in emotionally sensitive conversations. Architected the behavioral response model integrating Motivational Interviewing and ACT-based defusion, defining what appropriate and safe model responses should look like when users report emotional distress.

Nico-Reco: Generative AI & Future Self-Continuity Platform

2025 – Present

Role: Co-Principal Investigator

Scientific & Clinical Leads: *Hong, J., Seo, J., **Shelton, C. R.**, & Oh, H.

- ❖ Co-developing a generative AI pipeline utilizing Deep3D reconstruction and Vision Language Models (VLM) to generate photorealistic, aged "future self" avatars within Unreal Engine 5.
- ❖ Contributing clinical and behavioral-science input to the conversational design, including personalized dialogue and how Future Self-Continuity principles are translated into behavior-change interactions.

AI-Driven VR & Gait Analysis Screening System

2025 – Present

Role: Co-Principal Investigator

Scientific & Clinical Leads: Azeemuddin, S. & **Shelton, C. R.**

- ❖ Serving as the Clinical Lead for a multimodal research system exploring VR and gait-analysis indicators associated with perinatal mental health conditions.
- ❖ Architected the experimental protocol coupling valenced VR environments with concurrent gait analysis. Orchestrating the cross-disciplinary integration of medical, psychological, and computer science workflows to evaluate non-invasive candidate markers of maternal well-being.

Pediatric Neuro-Rehabilitation: Personalized 3D-Printed CIMT Constraint Device

2025 – Present

Role: Co-Principal Investigator

Scientific & Clinical Leads: *Steckel, B., Orange, R., & Shelton, C. R.

- ❖ Co-lead development of a digitally fabricated constraint device intended to modernize pediatric Constraint-Induced Movement Therapy (CIMT). Translate rehabilitation evidence and clinical requirements into design criteria for therapeutic restriction, fit, safety, breathability, adjustability, caregiver usability, and child acceptability while the team converts 3D upper-limb scans into reproducible, versionable printable devices. Initial technical-feasibility work produced a wearable ~130 g prototype for approximately \$12.80 in materials using a scan-to-model-to-print workflow and was disseminated through a peer-reviewed SEET 2026 Idea and Vision paper and conference presentation. Next-stage work will

evaluate pediatric fit, comfort, safety, tolerance, therapist workflow, caregiver acceptance, and comparative performance against conventional constraint types.

Neuro-Immersive Signal Integration (The "EEG" Project) 2025 – Present

Role: Co-Principal Investigator

Scientific & Clinical Leads: *Steckel, B., Edwards, E., & Shelton, C. R.

- ❖ Establishing the lab's neurophysiological benchmarking protocols for measuring brain activity during immersive experiences.
- ❖ Architecting the hardware integration of EEG arrays within head-mounted displays (HMDs) to isolate signal quality from motion artifacts and define internal standards for future neuro-adaptive interface research.

Serene: COVID-19 Public-Health Support Platform (Android, iOS, and Web app) 2020 – 2021

Role: Co-Principal Investigator

Scientific & Clinical Leads: Elliott, L. J., **Shelton, C. R.**, Zhao, R., & Marsh, J.

- ❖ Organized an accelerated product team during the COVID-19 pandemic to expand access to community mental health resources. Conceptualized the app's features and led a cross-functional group to launch a coping-skills tool across three platforms in under two months.

CSI-CAST: AI-Enhanced Clinical Decision Support System 2016 – 2019

Role: Co-Principal Investigator

Scientific & Clinical Leads: Risser, H. J., **Shelton, C. R.**, Zhao, R., & Hetzel-Riggin, M. D.

- ❖ Built an interactive simulation instrumented with 51 binary decision points to quantify clinical decision-making patterns at scale. Implemented a machine-learning feature-selection pipeline (RFE + penalized logistic regression) to identify which behavioral cues and decision choices most strongly predict correct outcomes, supporting scalable assessment, targeted training needs identification, and annotation-style evaluation of clinician judgment. (Published).

Environmental AI & Data Intelligence

Autonomous Drone & Computer Vision Platform (Invasive Species Detection) 2023 – 2025

Role: Co-Principal Investigator

Originator Core Investigators: **Shelton, C. R.**, Beaty, L., & Abdallah, A. A.

- ❖ Originator and Principal Investigator for an integrated AI and drone-based monitoring system. Secured grant funding and operationalized the cross-functional workflow between biological researchers and ML engineers. Defined the data acquisition protocols (utilizing 360°/3D aerial imagery) that allowed the technical team to train models achieving 97% classification accuracy.

XR Curriculum Integration Database (SaaS / PowerBI) 2022 – Present

Role: Co-Principal Investigator

Originator Core Investigators: **Shelton, C. R.**, Smecker, N., & *Jacobs, M

- ❖ Founded and scaled a centralized immersive database to bridge the gap between emerging technology and academic curriculum. The platform's growth drove a strategic consolidation with Teaching and Learning with Technology, merging datasets to create a unified, open-access solution. Directed the product roadmap to ensure the tool remains free and publicly available, indexing VR/AR programs against specific learning objectives for a global user base. <http://xrcatalog.psu.edu>

Workforce Development & Corporate Training

VR Quality Assurance Showcase Solution (Enterprise Client) 2025

Role: Principal Investigator

- ❖ Secured the B2B client partnership and managed the full product lifecycle for an interactive VR showcase tool. Oversaw a rapid 3-month agile development cycle to deliver a functional application that visualizes rigorous ISO 9001 compliance standards. Directed the production team to prioritize high-fidelity stereoscopic visualization to meet the client's strict quality assurance (QA) requirements for brand transparency.

XR Career Pipeline & Workforce Development Platform

2025 – Present

Role: Principal Investigator

- ❖ Leading a regional workforce initiative to strengthen STEM career pipelines. Designing the curricular framework for a virtual job shadowing platform that utilizes 360°/180° immersive video. Managing stakeholder relationships with healthcare and advanced manufacturing partners to produce content that increases career accessibility for underserved youth.

Civic Innovation & Cultural Heritage

Echoes of HistERIE (an immersive XR app)

2023 – Present

Role: Principal Investigator**Core Investigators:** Shelton, C. R., Sachsenmeier, J. F., & Beshero-Bondar, E.

- ❖ Directing the production of a location-based XR platform that preserves regional heritage through interactive storytelling. Orchestrating the integration of archival content with 3D reconstructions to create a dynamic, place-based exploration of Erie's cultural history. This initiative serves as a model for using immersive tech to drive community engagement and historical empathy.

Hagen History Center Digital Transformation Series (4 *Immersive Products*)

2021 – 2022

Role: Co-Principal Investigator**Core Investigators:** Shelton, C. R. & Sachsenmeier, J. F.

- ❖ Pitched and secured a multi-year strategic partnership to modernize museum exhibits through immersive technology. Served as the Solution Architect for a suite of four custom applications, managing the client relationship and delivery timeline.
 - *The Perry Telescope (A Virtual Perspective)*: Commissioned to design a marquee digital experience anchoring the museum's flagship reopening following a multi-year renovation. Tasked with creating the companion exhibit for the institution's newly acquired \$100,000 historic telescope, effectively bridging the gap between physical preservation and public interaction. Conceptualized and directed the development of a high-fidelity "digital twin" that grants visitors impossible access to the fragile, glass-encased artifact. The simulation gamifies historical empathy by reconstructing Perry's specific vantage point during the Battle of Lake Erie, challenging users to spot enemy warships on the horizon, transforming a static relic into a dynamic, hands-on engagement tool
 - *Immersive Households (1890s & 1950s)*: Directed the creation of 3D interactive tours that merge historical object modeling with gamified authentic recipe preparation to increase visitor engagement.
 - *Immigration Data Visualization*: Designed an interactive interface mapping ethnic settlement patterns to illustrate the region's diverse settlement history for public education.

The Wintergreen Gorge Tour (Immersive web app)

2021

Role: Co-Principal Investigator

Core Investigators: *Jacobs, M. A. & Shelton, C. R.

- ❖ Identified an opportunity to increase accessibility for the university's natural resources and conceptualized a virtual tour solution. Directed the development of a web-based platform that blends 360° imagery, location-based content, and interactive storytelling overlays to support environmental education and virtual outreach for prospective students and the broader community. <https://varlab.bd.psu.edu/wintergreen/>

RESEARCH EXPERIENCE

VAR Lab: The Emerging Technologies Hub Role: Founder & Director	2019 – Present
CSI-CAST: AI-Enhanced Clinical Decision Support System Role: Co-Principal Investigator; Collaborators: Drs. Hetzel-Riggin, Risser, & Zhao	2016 – 2019
Attention and Learning Laboratory , University of Wyoming Role: Graduate Research Assistant; Mentor: Cynthia Hartung, Ph.D.	2013 – 2018
NSF Rapid Grant SES-1015391 (DeKalb, IL) Role: Research Assistant; Supervisors: Rebecca Hannagan, Ph.D., Christopher Larimer, Ph.D.	2010 – 2011
Center for the Study of Family Violence and Sexual Assault (DeKalb, IL) Role: Research Assistant; Supervisors: Julie Crouch, Ph.D. and Joel Milner, Ph.D.	2009 – 2011

MENTORSHIP

Research Mentor (over 120 unique VAR Lab student researchers), Penn State 2018 – Present
 * The counts below show students mentored during each reporting period. Students who continued working with the lab appear in more than one period; these counts should not be read as a total of distinct students.

Mentored 7; 4 undergraduate and 3 graduate research assistants	2026, Summer
Mentored 18; 12 undergraduate and 6 graduate research assistants	2026, Spring
Mentored 25; 21 undergraduate and 4 graduate research assistants	2025, Fall
Mentored 6; 3 undergraduate and 3 graduate research assistants	2025, Summer
Mentored 34; 28 undergraduate and 6 graduate research assistants	2025, Spring
Mentored 23; 17 undergraduate and 6 graduate research assistants	2024, Fall
Mentored 24; 18 undergraduate and 6 graduate research assistants	2024, Spring
Mentored 22; 16 undergraduate and 6 graduate research assistants	2023, Fall
Mentored 20; 16 undergraduate and 4 graduate research assistants	2023, Spring
Mentored 75; 67 undergraduate and 8 graduate research assistants	2018 – 2022

Theses Committee Member or Chair, Penn State University 2019 – Present

Love, A., M.A., (expected 2027; **Chair**). *TBD*. Penn State University, The Behrend College.

Khairi, A., M.A., (2026; **Chair**). *Does sleep mediate the effect of sunlight on daily mood? A mediation analysis using ecological momentary assessment*. Penn State University, The Behrend College.

Welsbacher, A., M.A., (2026; **Chair**). *Public perceptions and opinions on invasive species in Lake Erie*. Penn State University, The Behrend College.

Manelick, A., M.A., (2025; **Chair**). *Clinical insights: Applying cognitive behavioral therapy to adult Bipolar Type II*. Penn State University, The Behrend College.

Nowatzky, Cedric, M.A., (expected 2026; **Chair**). *PTSD in adolescents*. Penn State University, The Behrend College.

- Puglia, M., M.A., (2024; **Member**). *Identity attribution to athletics as a moderator of the relationship between perception of performance and self-worth in college student athletes*. Penn State University, The Behrend College.
- Nazneen, F., M.A., (2023; **Chair**). *The impact of a cognitive restructuring smartphone application on the perceived stress level of undergraduate freshman students*. Penn State University, The Behrend College.
- Karnik, S., M.A., (2023; **Chair**). *Socially desirable responding on a measure of negative emotional states: Biological sex, race, and personality*. Penn State University, The Behrend College.
- Rametse, L., M.A., (2023; **Chair**). *The impact of a smartphone mental health application on levels of depressive and anxious symptomatology in college students*. Penn State University, The Behrend College.
- Kress, A., M.A., (2022; **Member**). *Sexual victimization history among individuals who have experienced peritraumatic dissociation and have body esteem concerns and eating disorders*. Penn State University, The Behrend College.
- Dryer, T., M.A., (2021; **Member**). *The lived experiences of transgender African American men*. Penn State University, The Behrend College.
- Buzzell, A., M.A., (2021; **Member**). *An exploratory comparison of parent and therapist perceptions of parent roles in the therapeutic process of Applied Behavior Analysis*. Penn State University, The Behrend College.
- Kotsiou, A., M.A., (2020; **Chair**). *Therapists' perceptions of self-disclosure as a function of their clinical experience, therapeutic orientation, and contextual factors: A mixed design*. Penn State University, The Behrend College.
- Darrow, A., M.A., (2020; **Member**). *Pets and college adjustment*. Penn State University, The Behrend College.
- Leslie, C., M.A., (2019; **Member**). *Bullying and suicide: Examining the mediating role of the interpersonal theory of suicide*. Penn State University, The Behrend College.

Advisor

Psychology Program	2019 – Present
Active Minds Student Organization	2021 – 2023

TEACHING EXPERIENCE

Penn State University, The Behrend College	2018 – Present
Associate Professor of Clinical Psychology	2024 – Present
Assistant Professor of Clinical Psychology	2018 – 2024
Outreach Speaker , Counseling Center, University of Miami	2017 – 2018
Graduate Teaching Assistant , University of Wyoming	2013 – 2017
Guest Lecturer , University of Wyoming	2014 – 2016
Instructor , University of Wyoming	Fall 2015
Lecturer , Center for Academic Technology Support, Eastern Illinois University	2012 – 2013
Graduate Teaching Assistant , Eastern Illinois University	2011 – 2012

CLINICAL EXPERIENCE

Psychology Intern , University of Miami Counseling Center APA-Accredited Clinical Internship	2017 – 2018
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- ❖ Delivered evidence-based clinical services on a multidisciplinary team in a high-volume university counseling center, demonstrating calibrated clinical judgment across diverse and emotionally complex presentations.
- ❖ Provided risk assessment, safety planning, and referral coordination within multidisciplinary response workflows during periods of elevated campus and community stress, including Hurricane Irma and the aftermath of the Marjory Stoneman Douglas High School shooting.
- ❖ Applied structured evaluation frameworks for assessing psychological state, intent, harm risk, and safety needs in sensitive, time-critical clinical conversations.

Penn State University, The Behrend College

2018

Role: Career Advisor to First Year Seminar students

Florida International University

June 2018 – Aug. 2018

Role: Clinician; **Supervisor:** Margaret Sibley, Ph.D.

- ❖ Performed **in-home post-treatment neuropsychological assessments** for adolescents; administered semi-structured youth and caregiver interviews.
- ❖ Contributed to follow-up outcomes publication on long-term effects (see Publications).

Snowy Range Consulting, LLC (Laramie, WY)

Sept. 2016 – July 2017

Role: Clinician; **Supervisor:** Mark J. Watt, Ph.D., J.D., ABPP

- ❖ Conducted 43 documented integrative and neuropsychological evaluations with comprehensive reports for adults ages 18-75, including complex ADHD, learning-disability, mood, and anxiety differentials.
- ❖ Delivered clear, client-appropriate feedback; coordinated recommendations with referral sources.

Psychology Clinic, University of Wyoming

Aug. 2013 – May 2017

Learning and Behavioral Assessment and Treatment

Aug. 2016 – May 2017

Role: Clinician; **Supervisor:** Cynthia Hartung, Ph.D.

- ❖ Caseload predominantly neurodivergent (ADHD/ASD $\pm$ LD); delivered integrative and neuropsychological evaluations with complex differentials and clear, family-centered feedback.
- ❖ Selected and administered cognitive, achievement, attention, and executive-function batteries; screened for effort/malingering when indicated; authored comprehensive reports with school and workplace recommendations.
- ❖ Provided evidence-based ADHD interventions (organizational/time-management skills, CBT elements) and caregiver coaching; coordinated with campus disability services when applicable.

Psychology Clinic

Sept. 2015 – May 2016

Role: Clinical Supervisor; **Supervisor:** Christine McKibbin, Ph.D.

Personality Assessment and Mood Disorders

Aug. 2015 – July 2016

Role: Clinician; **Supervisor:** Walter Scott, Ph.D.

Learning and Behavioral Assessment and Treatment

Aug. 2013 – May 2015

Role: Clinician; **Supervisors:** Cynthia Hartung, Ph.D. and Tara Clapp, M.S./C.A.S.

- ❖ Conducted psychoeducational and integrative assessments for ADHD, LD (dyslexia/dyscalculia/dysgraphia), and disruptive behavior disorders; interpreted results and delivered collateral-informed feedback.
- ❖ Delivered group therapy for college students with ADHD and behavioral parent training; collaborated with schools and parents on implementation of recommendations.

Summer Treatment Program for Adolescents

May 2014 – Aug. 2014

Center for Children and Families, Florida International University**Role:** Clinician and Jobs Supervisor; **Supervisor:** Margaret Sibley, Ph.D.

- ❖ Supervised 48 adolescents (ADHD/ODD/CD/ASD/LD) in a structured behavioral modification program; delivered group CBT-based skills coaching.
- ❖ Led STAND groups for high-school students (organization, planning, study skills); ran combined caregiver + youth sessions focused on home/school generalization.
- ❖ Performed post-treatment **neuropsychological assessments**/semi-structured interviews for follow-up cohorts; contributed to long-term outcomes work (see Publications).

Moultrie County Counseling Center (Sullivan, IL)

Aug. 2012 – May 2013

Role: Clinician (Practicum/Internship); **Supervisors:** David Cole, MSW and Aimee Crask, M.S.

- ❖ Provided individual, group, and family therapy to a diverse caseload (ages 6-88) across multiple settings, including outpatient clinics, schools, and a local jail.

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

Association for Behavioral and Cognitive Therapies (ABCT)

Technology and Behavior Change (SIG), Member

Attention-Deficit /Hyperactivity Disorder (ADHD) Special Interest Group (SIG), Member

American Psychological Association (APA)

Division 46 - Society for Media Psychology and Technology

Association for Psychological Science (APS)

Psi Chi National Honor Society in Psychology

Society of Clinical Child and Adolescent Psychology (Division 53 of APA)

UNIVERSITY AND PROFESSIONAL SERVICES**University-Level Service, Penn State University**

2026 – Present

Member, Penn State AI Week 2027 Program Committee; Penn State Behrend Representative

- ❖ Nominated by Chancellor Ralph Ford to represent Penn State Behrend on the university-wide Program Committee for AI Week 2027, Reimagining the Land-Grant Mission for the Age of Artificial Intelligence, including cross-unit programming, collaboration, and external engagement.

Committee Work, Penn State University, The Behrend College

2018 – Present

Member, MPCAC Accreditation Self-Study Committee

2024 – Present

Member, Assistant Professor of Clinical Psychology Search Committee

2025 – 2026

Member, Assistant Teaching Professor of Clinical Psychology Search Committee

2024 – 2025

Member, Assistant Professor of Clinical Psychology Search Committee

2023 – 2024

Member, Assistant Teaching Professor of Game Design Search Committee

2023

Member, Assistant Teaching Professor of Psychology Search Committee

2022

Member, Endowment Advisory Committee

2021 – 2023

Member, Assistant Professor of Clinical Psychology Search Committee

2021 – 2022

Member, Digital Resources Committee

2019 – 2021

Chair, Digital Resources Committee

Spring/Summer, 2020

Chair, Assistant Professor of Clinical Psychology Search Committee

2019 – 2020

Member, Assistant Teaching Professor of Psychology Search Committee

2019

Member, Assistant Teaching Professor of Psychology Search Committee

2018 – 2019

Journal Reviewer

2019 – Present

Journal of Technology in Behavioral Science
 European Child & Adolescent Psychiatry
 Journal of Clinical Child and Adolescent Psychology
 Journal of Attention Disorders

Conference Judge

2026 – Present

The International Conference on Software Engineering of Emerging

MEDIA ENGAGEMENTS, FEATURES, & PUBLIC OUTREACH

Professional Podcast & Webinar Appearances (4)

Shelton, C. R. (Guest), & Jim Tatum (Host). (August 4, 2026). “Creating a Digital Twin of the Liberty Bell: Innovations in 3D Scanning and Metrology,” *Visions: A Machine Vision and Automation Solutions Podcast / Vision Systems Design*.
<https://www.vision-systems.com/non-factory/podcast/55395567/creating-a-digital-twin-of-the-liberty-bell-innovations-in-3d-scanning-and-metrology>

Shelton, C. R. (Guest), Orange, R. (Guest), Jarson, J. (Co-Host), & Morgan, K. (Cohost). (Release: Fall 2023; Recorded May, 04, 2023). *Concept to creation: Uncovering the making of scholarly and creative accomplishments*. <https://podcasts.apple.com/us/podcast/from-concept-to-creation-uncovering-the-making/id1676323361>

Shelton, C. R. (Guest) & Ford, R. (Host). (September 3, 2021). Behrend Talks 4.1: Virtual and augmented reality, with Dr. Christopher Shelton. <https://behrend.psu.edu/news-events/behrend-talks-radio-series>

Shelton, C. R. (Guest) & Daehnke, B. (Host). (April 1, 2021). Rise & Shine (S01E08): Virtual reality - More than fun and games. <https://behrend.psu.edu/alumni/rise-and-shine-webinar-series#varlab>

Media Features, Press Mentions, and Interviews (Total: 79)

News Article, “Penn State Behrend team’s scans of Liberty Bell help provide education, restoration,” Pittsburgh Post-Gazette, Newspaper/Online, SW Pennsylvania. (July 3, 2026).
<https://www.post-gazette.com/news/education/2026/07/03/liberty-bell-penn-state-behrend-america250/stories/202607020065>

News Article, “Behrend alumnus helps team create digital twin of the Liberty Bell,” Penn State News, Internet, Statewide/National. (August 4, 2026).
<https://www.psu.edu/news/behrend/story/behrend-alumnus-helps-team-create-digital-twin-liberty-bell>

Trade Feature, “Visualizing American History,” Vision Systems Design, Trade Publication / Online, National/Industry. (August 3, 2026).
<https://www.vision-systems.com/non-factory/article/55394939/visualizing-american-history-by-crwating-a-3d-twin-of-the-liberty-bell>

News Article, “Penn State Behrend team works with National Park Service to preserve Liberty Bell,” Penn State News, Internet, Statewide/National. (June 29, 2026).
<https://www.psu.edu/news/behrend/story/penn-state-behrend-team-works-national-park-service-preserve-liberty-bell>

TV News, “High-quality digital scan of Liberty Bell now freely available,” WTaj (CBS), Television / Web, Central Pennsylvania. (July 2, 2026).
<https://www.wtaj.com/news/local-news/high-quality-digital-scan-of-liberty-bell-now-freely-available/>

Trade Article, “Preserving America’s Symbol of Freedom – Precision Metrology Creates Digital Twin of Liberty Bell,” Metrology and Quality News, Trade Publication / Online,

- International. (July 3, 2026).
<https://metrology.news/preserving-americas-symbol-of-freedom-precision-metrology-creates-digital-twin-of-liberty-bell/>
- Interview, "WPSE Interview," Radio, Money Talks. (July 01, 2026).
- TV News Syndication, "America 250: Creating a digital twin of the Liberty Bell," KTLA (WB), Television, Los Angeles, CA. (June 30, 2026).
https://www.teletrax.com/Video/Review/CH00161_17308_184_20260630004156@84E488863D25713191C0D01D95391C69
- TV News Syndication, "America 250: Creating a digital twin of the Liberty Bell," WHTM (ABC), Television, Harrisburg, PA. (June 30, 2026). [Multiple airings.]
- TV News Syndication, "America 250: Creating a digital twin of the Liberty Bell," WGHP (Fox), Television, Greensboro, NC. (June 30, 2026).
https://www.teletrax.com/Video/Review/CH00337_17308_182_20260630134458@006DB3E08005E287421BC38EBAAD4AD8
- Industry Feature, "How Technology Is Preserving the Liberty Bell for America's 250th Anniversary," Lenovo StoryHub, Internet, National/International. (June 30, 2026).
<https://news.lenovo.com/how-technology-is-preserving-the-liberty-bell-for-americas-250th-anniversary/>
- News Article, "Penn State team makes first public scans of Liberty Bell they hope will help preserve it," PennLive, Newspaper/Online, Pennsylvania. (July 3, 2026).
<https://www.pennlive.com/nation-world/2026/07/penn-state-team-makes-first-public-scans-of-liberty-bell-they-hope-will-help-preserve-it.html>
- Trade Article, "Preserving an Icon: Liberty Bell Digital Twin," Lidar News, Trade Publication / Online, Industry. (July 2, 2026).
<https://lidarnews.com/liberty-bell-digital-twin/>
- Video Feature, "America 250: Creating a digital twin of the Liberty Bell," Campus Insights Media, Video / Online, National. (June 29, 2026).
<https://www.campusinsightsmedia.com/penn-state/e7740267-4294-4a1e-b4ff-48c44d062f59/?tab=video>
- National Syndication, "High-quality digital scan of Liberty Bell now freely available," AOL, Internet, National. (July 2, 2026).
<https://www.aol.com/news/high-quality-digital-scan-liberty-225753442.html>
- National Syndication, "High-quality digital scan of Liberty Bell now freely available," Yahoo News, Internet, National. (July 2, 2026).
<https://www.yahoo.com/news/videos/liberty-bell-201001501.html>
- TV News, "Liberty Bell replica rings out at Penn State Behrend," YourErie.com / JET24, Television / Web, NW Pennsylvania. (June 30, 2026).
- Podcast / Radio Feature, "A Fulbright experience in Erie, with Bibiana Mayer Steckel," Behrend Talks: A Penn State Podcast / WPSE, Podcast / Radio, NW Pennsylvania. (Radio air date June 5, 2026; podcast release June 15, 2026).
[Apple Podcasts episode](#)
- Article, "Where Global Minds Connect: Brazilian Fulbright Scholar collaborating with Behrend Virtual/Augmented Reality Lab," Journal or Magazine, H&SS News 2026, Erie, PA. (March 24, 2026).
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<https://behrend.psu.edu/news-events/school-publications/school-humanities-social-sciences-publications/hss-news-2026/where-global-minds-connect>

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- Article, "Virtual/Augmented Reality Lab (VAR Lab)," Flyer, Penn State Behrend Workforce Development. (May 2021). VAR Lab was featured in a Workforce Development flyer to showcase exciting initiatives going on within the School of Humanities and Social Sciences.
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- Interview, "Nontraditional STEM careers are for 21st century girls," Newspaper, The Corry Journal, Corry, Pennsylvania. (June 27, 2019). http://www.thecorryjournal.com/news/article_81baa630-98f0-11e9-a952-afe04d41909e.html

TECHNICAL OPERATIONS AND LEADERSHIP

- ❖ **VR Operations Leadership:** Coordinated a 30+ person cross-functional team for a 55-hour public VR endurance event associated with a Guinness World Record attempt. Managed observer rotations, operational logistics, and technical data-integrity protocols.