

THE CENTER FOR DISCOVERY

RECENT PUBLICATIONS



2026

Prediction of Challenging Behaviors Associated with Profound Autism in a Classroom Setting Using Wearable Sensors

Author: Yadhu Kartha, Conor Anderson, Jenny Foster, Theresa Hamlin, Johanna Lantz, Ryan Lay, Juergen Hahn, Gari D. Clifford, Hyeokhyen Kwon. (under review).

Publication: *ACM Health*

Year: 2026

Impact of COVID-19 on challenging behaviors of children with profound ASD in a residential facility.

Author: Ferina, J., Anderson, C., Foster, J., Hamlin, T., & Hahn, J. (n.d.).(end round review).

Publication: *Focus on Autism and Other Developmental Disabilities*

Year: 2026

Gastrointestinal symptoms and autism-associated behaviors are linked to diet and the gut microbiome–metabolome in autism spectrum disorder.

Author: Per, A., So, S. Y., Anderson, C., Serrano, A. V., Kochel, R., Berry, L., Redel, C., Runge, J. K., Rubio-Gonzales, M., Leeman, M., Murugesan, M., Powell, C., Williams, K., Savidge, T. C., Hamlin, T., Versalovic, J., Margolis, K. G., & Luna, R. A. (n.d.). (submitted).

Publication: *Cell*

Year: 2026

Natural environments support higher rates of moderate-to-vigorous physical activity compared to an indoor exercise environment for autistic youth.

Author: Mateer, T.J., Xie, D., Cho, J.Y., Castellano, F., Wilcox, K.T., le Roux Ohm, H., Lantz, J.F., & Wells, N.M.

Publication: *Environmental Research Communications, Volume 8, Number 7*

URL: [Publication Here](#)

Year: 2026

Applying Lifestyle Medicine to Improve Health Outcomes in People with Developmental Disabilities. Author:

Hamlin, T, Anderson, C, Lantz, J.F., Franck, J, le Roux Ohm, H., & Landry, D. (under review, final revisions).

Publication: *American Journal of Lifestyle Medicine*

Year: 2026

Caregiver perspectives on relationships with nature among autistic youth: A qualitative study of parents and educators.

Author: Mateer, T.J., Save, V., Kazemi, S., leRoux Ohm, H., Lantz, J.F., & Wells, N.M. (under review).

Publication: *Health and Place*

Year: 2026

AI-supported residential care placement decision making for individuals with autism spectrum disorder and complex medical issues

Author: Dando, E., Kruger, U., Anderson, C., Foster, J., Hamlin, T., & Hahn, J.

Publication: *Research in Autism*

URL: [Publication Here](#)

Year: 2026

2025

Approaches for Predicting the Occurrence of Challenging Behaviors in Individuals with Autism Spectrum Disorder: A Narrative Review

Author: Ferina, J., Dando, E., Anderson, C., Foster, J., Lantz, J., Hamlin, T., & Hahn, J.

Publication: *Editor's Choice Article, Journal of Personalized Medicine*

URL: [Publication Here](#)

Year: 2025

Predicting seizure episodes and high-risk events in autism through adverse behavioral patterns.

Author: Kiarashi, Y., Lantz, J., Reyna, M. A., Anderson, C., Rad, A. B., Foster, J., Villavicencio, T., Hamlin, T., & Clifford, G. D.

Publication: *Physiological measurement*

URL: [Publication Here](#)

Year: 2025

The effect of the natural environment and greenness on behavior, function, and well-being among individuals with autism spectrum disorder: A scoping review

Author: Nancy M. Wells, Jordan Tralins, Dongying Li, Timothy J. Mateer, Erin R.B. Eldermire, Helena le Roux Ohm, Johanna Lantz, Matthew R. Kibbee

Publication: *Journal of Environmental Psychology*

URL: [Publication Here](#)

Year: 2025

From motion to emotion: exploring challenging behaviors in autism spectrum disorder through analysis of wearable physiology and movement

Author: Rad, A. B., Villavicencio, T., Kiarashi, Y., Anderson, C., Foster, J., Kwon, H., Hamlin, T., Lantz, J., & Clifford, G. D.

Publication: *IOP Publishing Ltd*

URL: [Publication Here](#)

Year: 2025

2024

Off-body sleep analysis for predicting adverse behavior in individuals with autism spectrum disorder

Author: Kiarashi, Y., Suresha, P. B., Rad, A. B., Reyna, M. A., Anderson, C., Foster, J., Lantz, J., Villavicencio, T., Hamlin, T., & Clifford, G. D.

Publication: *IEEE journal of biomedical and health informatics*.

URL: [Publication Here](#)

The IndieTrainer system: a small-scale trial exploring a new approach to support powered mobility skill acquisition in children

Author: Lisa K. Kenyon, John P. Farris, Lindsey Veety, Brianna Kleikamp, Kara Harrington, Jennifer Jenkinson, Amanda Montgomery, Sango Otieno, Ian M. Russell and Daniel K. Zondervan

Publication: *Taylor & Francis Group*

URL: [Publication Here](#)

Year: 2024

2023

The IndieTrainer system: a clinical trial protocol exploring use of a powered wheelchair training intervention for children with cerebral palsy

Author: Lisa K. Kenyon, John Farris, Lindsey Veety, Daniel K. Zondervan

Publication: *Taylor & Francis Group*

URL: [Publication Here](#)

Year: 2023

Predicting Problematic Behavior in Autism Spectrum Disorder Using Medical History and Environmental Data

Author: Jennifer Ferina, Melanie Kruger, Uwe Kruger, Daniel Ryan, Conor Anderson, Jenny Foster, Theresa Hamlin, Juergen Hahn

Publication: *Journal of Personalized Medicine*

URL: [Publication Here](#)

Year: 2023

Regaining Trust in the Music: Music Therapy with Emily

Author: Conio Loretto, MS, LCAT, MT-BC

Publication: Chapter in *Portraits of Everyday Practice in Music Therapy*

URL: [Publication Here](#)

Year: 2023

An evaluation on the effects of safe person handling program implementation at long term care facilities for persons with complex intellectual, developmental, and medical conditions

Authors: Daniel Ryan, Conor Anderson, Ann Marie Connolly, Lindsey Veety, Tania Villavicencio, Lindsey Parks

Publication: *American Journal of Industrial Medicine*

URL: [Publication Here](#)

Year: 2023

2022

Observational Study of Medical Marijuana as a Treatment for Treatment-Resistant Epilepsies Authors: Orrin Devinsky, Angelica Marmanillo, Theresa Hamlin, Philip Wilken, Daniel Ryan, Conor Anderson, Daniel Friedman, George Todd

Publication: *Annals of Clinical and Translational Neurology*

URL: [Publication Here](#)

Year: 2022

2020

Associated Factors of Self-injury Among Adolescents with Autism Spectrum Disorder in a Community and Residential Treatment Setting

Author: Jacqueline Flowers, Johanna Lantz, Theresa Hamlin & Rune J. Simeonsson

Publication: *Journal of Autism and Developmental Disorders*

URL: [Publication Here](#)

Year: 2020

Seating and positioning factors in wheeled mobility.

Author: Veety, L & Baxter, A

Publication: *In K. Fleckey & L Gitlow (Ed), Assistive Technologies and Environmental Interventions in Healthcare (1st ed, pp.239-267). Hoboken, NJ: Wiley.*

Year: 2020

Positioning and mobility technology and environmental interventions other than wheeled mobility.

Authors: Veety, L & Baxter, A

Publication: *In K. Fleckey & L Gitlow (Ed), Assistive Technologies and Environmental Interventions in Healthcare (1st ed, pp.267-286). Hoboken, NJ: Wiley*

Year: 2020

2019

Examining the Association Between Electrodermal Activity and Problem Behavior in Severe Autism Spectrum Disorder: A Feasibility Study

Authors: Bradley J. Ferguson, Theresa Hamlin, Johanna F. Lantz, Tania Villavicencio, John Coles, and David Q. Beversdorf

Publication: *Frontiers in Psychiatry*

URL: [Publication Here](#)

Year: 2019

Psychophysiological Biomarkers of Stress as Predictors of Behavioral Disturbance in Autism Spectrum Disorder

Authors: Bradley J. Ferguson, Theresa Hamlin, Johanna Lantz, John Coles, Tania Villavicencio, David Beversdorf

Poster Presentation: *International Society for Autism Research (INSAR)*

URL: [Paper Here](#)

Year: 2019

2017

Measuring Complexity for Autism Interventions: TCFD's Inventory of Neuroeducational Complexity.

Authors: Theresa Hamlin, Ed.D, Jennifer Foster, Johanna Lantz, Matthew Northrup, Tania Villavicencio, Rune Simeonsson, Donald Lollar.

Publication: *J Child Dev Disord*.

URL: [Full Article Here](#)

Year: 2017

Recognize Need to Address Stress in Young Children with Autism.

Authors: Contributions by Theresa Hamlin, Ed.D.

Publication: *SpecialEdConnection*®

URL: [Full Article Here](#)

Year: 2017

2016

Wearable Stress Sensors for Children with Autism Spectrum Disorder With In Situ Alerts to Caregivers via a Mobile Phone

Authors: C Matthew Northrup, Johanna Lantz, Theresa Hamlin

Publication: *JMIR Publications*

URL: [Wearable Stress Sensors for Children With Autism Spectrum Disorder With In Situ Alerts to Caregivers via a Mobile Phone](#)

Publication Year: 2016

Improving Social Functioning and Challenging Behaviors in Adolescents with ASD and Significant ID: A Randomized Pilot Feasibility Trial of Reciprocal Imitation Training in a Residential Setting.

Author: Brooke Ingersoll, Natalie Berger, Danielle Carlsen & Theresa Hamlin.

Publication: *Developmental Neurorehabilitation*, 2016.261.261.

URL: [Full Article Here](#)

Year: 2016

Upper Extremity Neuro-Rehabilitation Through the Use of Power Mobility.

Authors: John Damiao, MS, OTR/L, ATP/SMS, Danielle Kean, COTA/L.

Publication: *Assistive Technology Journal – Volume 28.1. 2016, Spring*.

Year: 2016

2015

Finding a Piece of the Puzzle: Case Studies on Social Skills Development through Improvisation in an Intensive Treatment Model.

Author: Beth Deyermond, MT-BC.

Publication: *Thesis submitted in partial fulfillment of the Master of Arts Degree, Saint Mary-of-the-Woods College, Saint Mary-of-the-Woods, IN, September 2015.*

Magic Club: Another Therapeutic Trick up an OT's Sleeve.

Author: Rachel Thompson, MS, OTR/L.

Publication: OT Practice Magazine 20.11: 17-19. 2015, June.

URL: [Full Presentation Here](#)

Year: 2015

Restorative Sleep: A Life Essential.

Author: Annelise Potgieter, PT, DPT, C/NDT; Lindsey Veety, PT, DPT, C/NDT, ATP; Amy Baxter, PT, DPT; Mary Delia Mahon, PT, MSPT; Melissa Grassi, OTR/L.

Publication: *NDTA Network. Vol. 22, Issue 3, Pages 14-18. 2015, May/June.*

2013

Social Intervention for Adolescents With Autism and Significant Intellectual Disability: Initial Efficacy of Reciprocal Imitation Training.

Author: Ingersoll B, Walton K, Carlsen D, Hamlin T. American Journal on Intellectual and Developmental Disabilities, 2013, Vol. 118, No.4, 247-261.

URL: [Download Full Article \(PDF\)](#)

Year: 2013

Creating a Stable Base for Success.

Author: Veety, L., Baxter, A.

Publication: *Closing the Gap, pages 17-20. 2013, August/September*

Year: 2013