CURRICULUM VITAE

DMITRI V. POLTAVSKI, Ph.D

Department of Psychology
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EDUCATION

University of North Dakota, Grand Forks, ND — 2003
Ph.D. in Experimental Psychology
Dissertation: "Nicotine Effects on Attention: Implications for ADHD Therapy"

University of North Dakota, Grand Forks, ND — 2000
M.A. in Experimental Psychology
Thesis: "Effects of Transdermal Nicotine on Prose Memory"

University of North Dakota, Grand Forks, ND — 1998
B.A. in Psychology and German
Honors Thesis: "Stress and Stress-related Disorders in College Students from a Cross-cultural Perspective"

Moscow State Pedagogical University, Moscow, Russia — 1998
M.A. in English and Linguistics
Thesis: "Use of Euphemisms in the US Academia"

ACADEMIC APPOINTMENTS

Professor of Psychology – Department of Psychology, University of North Dakota, Grand Forks. — 2022 - present
Traditional classroom and online teaching, graduate student supervision, independent Research, extramural grant management

Associate Professor of Psychology – Department of Psychology, University of North Dakota, Grand Forks. — 2015 - 2022
Traditional classroom and online teaching, graduate student supervision, independent research and extramural grant management

Assistant Professor of Psychology – Department of Psychology, University — 2009 – 2015

of North Dakota, Psychology Department, Grand Forks, ND
Traditional classroom and online teaching, student supervision, independent research and grant writing

Assistant Professor of Clinical Neuroscience / Senior Research Analyst 2003 - 2009
Center for Health Promotion and Prevention Research, School of Medicine and Health Sciences, University of North Dakota, Grand Forks, ND
Health program development and implementation, program evaluation, statistical data analysis and interpretation, writing for publication, grant writing, supervision of graduate students, website design and maintenance.

Adjunct Assistant Professor of Psychology – Department of Psychology 2005 -2009
University of North Dakota, Grand Forks, ND
Special topics instructor

COURSES TAUGHT

Department of Psychology, University of North Dakota 2003 - present

- PHYSIOLOGY OF BEHAVIOR AND PSYCHOPHYSIOLOGICAL MEASUREMENT (PSYC 437/537)*
- BIOLOGICAL BASES OF BEHAVIOR, 330 (ONLINE)*
- PERCEPTION (PSYC 436) (Classroom and ONLINE)*
- MULTIVARIATE STATISTICS (PSYC 542)*
- PSYCHOPHARMACOLOGY, 594 (Classroom and ONLINE)*
- RESEARCH METHODS (PSYC 303)
- NEUROPSYCHOLOGY, 594 (classroom and ONLINE)
- MOTIVATION AND EMOTION, 434 (classroom and ONLINE)
- PHYSIOLOGICAL PSYCHOLOGY, 435, 535 (classroom and ONLINE)
- COGNITIVE PSYCHOLOGY, 539 (ONLINE)
- PSYCHOPHYSIOLOGY, 437, 537 (classroom and ONLINE)
- INTRODUTION TO PSYCHOLOGY, 101

* - currently teaching

School of Medicine and Health Sciences, University of North Dakota 2006, 2008
Facilitator for Medical Students – Patient-Centered-Learning (PCL)

- BLOCK II (BIOLOGY OF ORGAN SYSTEMS)
- BLOCK VI (PATHOBIOLOGY)

UNDERGRADUATE STUDENT ADVISING

2021

- Academic project mentor to MARC U-STAR Scholar Program. Student: *Sena Dossou-Gouchola*. Project title: Extraversion Differences in Young Adults.

2020

- Academic project mentor to MARC U-STAR Scholar Program. Student: *Aaron Blackwell.* Project Title: "A New Approach to Vision Therapy Based on Naturalistic 3-D Computer Gaming".

GRADUATE STUDENT ADVISING

2025

- Dissertation Committee **Chair,** Psychology. Dissertation Title: "Examining the Utility of Haptic Feedback to Improve Pilot Situational Awareness and Performance: A Psychophysiological Approach". Student: *Jessica van Bree.*
- Dissertation Committee **Chair,** Psychology. Thesis Title: "The Effect of Chronic Sleep Deprivation on Visuomotor Performance Using Electroencephalographic Measurement". Student*: Jaxon Erie*

2024

- Thesis Committee **Chair,** Psychology. Thesis Title**: "**The Effects of tDCS on Visuomotor Integration and Processing". Student: *Jessica van Bree.*

2023

- Dissertation Committee **Chair,** Psychology. Dissertation Title: "Using Electroencephalographic (EEG) Measures of Working Memory in the Context of Binge Drinking: Analyzing Theta/Gamma Ratios". Student: *Michelle Duffy*.
- Dissertation Committee **Chair,** Psychology. Dissertation Title*:* "The Effects of Demographic and Health Risk Factors, Dietary Diversity and Nutritional Variables on Anxiety and Depression Symptoms in Adults"*.* Student: *Jon Santiago*.

2022

- Master's Thesis Committee **Chair**, Psychology. Thesis Title:" The Effects of tDCS on Visuomotor Integration and Processing". Student: *Jessica Van Bree* (in progress).
- Master's Thesis Committee Member, Psychology. Thesis Title: "Natural Fractals and Facial Emotion Recognition: A Study Exploring the Fractal Fluency Model". Student: *Nathaniel Pagel*.
- Directed Individual/Independent Study, Forensic Psychology. Topic Title: Courtroom Considerations for Traumatic Brian Injury. Student: *Amanda Donley.*

2020

- Dissertation Committee **Chair,** Psychology. Dissertation Title: "The Effects of Modulating Accommodative-Vergence Stress within the Context of Operator Performance on Automated System Tasks". Student. *Kyle Bernhardt.*
- Dissertation Committee Member, Psychology. Dissertation Title: "Dimensions of Attention-Deficit/Hyperactivity Disorder and Sluggish Cognitive Tempo as Predictors of Executive Functioning, Substance Use, Depression, and Anxiety". Student: *Danielle Beyer*.

2019

- Dissertation Committee **Chair,** Psychology. Dissertation Title: "Functional Near-Infrared Spectroscopy as a Mechanism for Observing and Measuring Neurological Effects of Experienced Child Abuse and Alcohol Abuse". Student: *Christopher Mark.*

2018

- Master's Thesis Committee **Chair**, Psychology. Thesis Title: ''Differentiating Between Active and Passive Fatigue States with the Use of Electroencephalography". Student. *Kyle Bernhardt*.
- Master's Thesis Committee Member, Psychology. Thesis Title: Dieter's Deficit: Preoccupation and Working Memory. Student: *Kelly Cuccolo*.
- Master's Thesis Committee Member, Psychology. Thesis Title: "Piqued by Picture-Perfect Portraiture: How Peak Shift Affects Representations of the Human Form". Student: *Olivia Stenstad*

2017

- Master's Thesis Committee **Chair**, Psychology. Thesis Title: "The Prediction of Nonmedical Prescription Stimulant Use in College Students". Student: *Danielle Beyer*.

2016

- Master's Thesis Committee **Chair**, Psychology. Thesis Title: Differential Executive Functioning, Impulsivity, and Motivation in Adulthood as a Function of Experienced Child Abuse. Student: *Christopher Mark*.

2015

- Master's Thesis Member-at-Large, Space Studies. Thesis Title: HEE Planetary Environmental Suit Study. Student: *Joseph Jessup.*

2014

- Master's Thesis Committee Member, Psychology. Thesis Title: Executive functioning and drinking: The impact that taxing working memory has on alcohol consumption. Student: *Mara Norton-Baker*
- Master's Thesis Committee Member, Psychology. Thesis Title: "Decision-Making in Substance Use Disorders". Student: *Theodore Krmpotich*
- Directed Individual/Independent Study, "Literature Review: Behavioral Effects of Omega-3 Supplements on Criminal, Violent, and Antisocial Individuals", Psychology. Student: *Donald Ferguson*

2013

- Master's Thesis Committee Member, Psychology. Thesis Title: "The Role of Individual Differences in Young Adults Responses to Graphic Health Harms Anti-tobacco Media". Student: *Harpa Lind Jónsdóttir*
- Dissertation Committee Member, Psychology. Dissertation Title: "The Effects of Friendship and Discussion on Individuals Responses to Anti-Sugary Drinks Television Ads". Student: *Kaitlin Lilienthal*

2011

- Master's Thesis Committee Member, Psychology. Thesis Title: "Childhood Overweight, Obesity and Cardiovascular Fitness: What are the Predictors?". Student: *Kaitlin Raines*

2010

- Dissertation Committee Member, Psychology. Dissertation Title: "Smokers' Responses to Fearful and Disgust-eliciting Antismoking Media". Student: *Mark Goetz*

DEPARTMENTAL AND UNIVERSITY SERVICE

Psychology Department

- PSYCenntenial Reunion Committee 2022 - 2023
- Northern Lights Psychological Conference Committee 2019 - present
- Psychology Department Webmaster 2009 - present
- SONA Research Participating System Committee 2019 - present
- Engagement Committee 2017- 2018
- Admissions Committee 2016
- Evaluation Committee / Tenure, Review and Promotion Committee 2013 - 2014

College

- Northern Plains Center for Behavioral Research (NPCBR) Building Committee 2014 - 2017

University

- University of North Dakota Intercollegiate Athletics Committee 2022 - present
- University of North Dakota MARC U-STAR Scholar Program: Student Mentor 2019 - present
- UND Karate Club advisor 2018 - present

PROFESSIONAL ASSOCIATIONS

- College of Optometrists in Vision Development (COVD) 2010 - present
- International Sports Vision Association (ISVA) 2022 - present
- International Shotokan Karate Federation (ISKF) 2018 – present
  - Rank – Shodan (2025)
- American Public Health Association 2003 - 2005

PEER-REVIEWED JOURNAL ARTICLES

1. Van Bree, J., **Poltavski, D.**, Wilson, N., & Petros, T. (2026). Cue validity moderates the effects of haptic feedback in simulated instrument flight. *Ergonomics*, 1–23. https://doi.org/10.1080/00140139.2026.2729405

2. Van Bree, J., & **Poltavski, D**. (2026). The effects of visuomotor training and tDCS stimulation on visuomotor integration and visual processing: an electrophysiological approach. *Neuroscience* (612), 175-191. https://doi.org/10.1016/j.neuroscience.2026.07.048

3. Mills, W. R., Lach-Sharon, R., Briggs, S. T., Mills, A. S., Bromell, S. A., Baker, A., ... & **Poltavski, D** (2025). A Novel Anti-Frailty Home Healthcare Program Improves Physical Performance Measures and Increases Independence in Frail Older Adults. *Home Health Care Management & Practice***,** https://doi.org/10.1177/10848223251348178

4. Brocherie, F., Stetter, B., **Poltavski, D.,** & Foged Vigh-Larsen, J. (2024). Editorial: Hockey: Testing and Performance. *Frontiers in Sports and Active Living, 6*, 1364470. https://doi.org/10.3389/fspor.2024.1364470

5. Mills, W., Howard, S., Pitzen, K., Smitherman, J., Cole L., Wolfram, J., Deane, W., Sender, S., **Poltavski, D.** (2024). A Novel Home-Based Medication Management Program and Its Influence on Hospitalization Rates Among Home Healthcare Recipients. *Journal of the American Medical Directors Association (JAMDA)*, 25 (1), 155-157. https://doi.org/10.1016/j.jamda.2023.10.012

6. **Poltavski,** D., Adams, R., Biberdorf, D., and Patrie, J. (2023). Effectiveness of a novel video game platform in treatment of pediatric amblyopia*. Journal of Pediatric Ophthalmology and Strabismus*, 1-10. https://doi.org/10.3928/01913913-20230324-01

7. Mark, C. A., & **Poltavski, D. V.** (2023). Functional near-infrared spectroscopy is a sensitive marker of neurophysiological deficits on executive function tasks in young adults with a history of child abuse. *Applied Neuropsychology: Adult*, 1-14. https://doi.org/10.1080/23279095.2023.2179399

8. Mills, W. R., Huffman, M. M., Roosa, J., Pitzen, K., Boyd, R., Schraer, B., & **Poltavski, D**. (2022). Provision of Home-Based Primary Care to Individuals with Intellectual and/or Developmental Disability Is Associated With a Lower Hospitalization Rate Than a Traditional Primary Care Model. *Journal of the American Medical Directors Association (JAMDA)*. https://doi.org/10.1016/j.jamda.2022.05.011

9. **Poltavski, D**., Biberdorf, D., & Poltavski, C. P. (2021). Which Comes First in Sports Vision Training: The Software or the Hardware Update? Utility of Electrophysiological Measures in Monitoring Specialized Visual Training in Youth Athletes. *Frontiers in Human Neuroscience*.
    a. https://doi.org/10.3389/fnhum.2021.732303

10. Bernhardt, K., & **Poltavski, D.** (2021). Symptoms of convergence and accommodative insufficiency predict engagement and cognitive fatigue during complex task performance with and without automation. *Applied Ergonomics*, 90, 103152. https://doi.org/10.1016/j.apergo.2020.103152

11. Mills, W. R., Sender, S., Lichtefeld, J., Romano, N., Reynolds, K., Price, M., Phipps, J., White, L, Howard, S., **Poltavski, D** & Barnes, R. (2020). Supporting individuals with intellectual and developmental disability during the first 100 days of the COVID-19 outbreak in the USA. *Journal of Intellectual Disability Research*, *64*(7), 489-496. https://doi.org/10.1111/jir.12740

12. **Poltavski, D**., Bernhardt, K., Mark, C., & Biberdorf, D. (2019). Frontal theta-gamma ratio is a sensitive index of concussion history in athletes on tasks of visuo-motor control. *Scientific Reports, 9, 17565*. https://doi.org/10.1038/s41598-019-54054-9

13. Ruthig, J. C., **Poltavski, D. P**., & Petros, T. (2019). Examining Positivity Effect and Working Memory in Young-Old and Very Old Adults Using EEG-Derived Cognitive State Metrics. *Research on aging*. https://doi.org/10.1177/0164027519865310

14. Mills, W. R., **Poltavski, D**., Douglas, M., Owens, L., King, A., Roosa, J., ... & Weber, D. (2019). A Platform and Clinical Model to Enable Medicare's Chronic Care Management Program. *Population Health Management*. https://doi.org/10.1089/pop.2019.0053

15. Mark, C. A., **Poltavski, D. V**., Petros, T., & King, A. (2019). Differential executive functioning in young adulthood as a function of experienced child abuse. *International journal of psychophysiology*, *135*, 126-135.https://doi.org/10.1016/j.ijpsycho.2018.12.004

16. Bernhardt, K. A., **Poltavski, D.,** Petros, T., Ferraro, F. R., Jorgenson, T., Carlson, C., ... & Iseminger, C. (2019). The effects of dynamic workload and experience on commercially available EEG cognitive state metrics in a high-fidelity air traffic control environment. *Applied ergonomics*, *77*, 83-91.https://doi.org/10.1016/j.apergo.2019.01.008

17. **Poltavski,** D., Van Eck, R., Winger, A. T., & Honts, C. (2018). Using a polygraph system for evaluation of the social desirability response bias in self-report measures of aggression. *Applied psychophysiology and biofeedback*, *43*(4), 309-318.https://doi.org/10.1007/s10484-018-9414-4

18. **Poltavski**, D.V., Lederer, P., & Kopko Cox, L. (2017). Visually evoked potential markers of concussion history in patients with Convergence Insufficiency. *Optometry and Vision Science, 94 (7),* 742-750. Doi: 10.1097/OPX.0000000000001094

19. Bernhardt, K. A., Jorgenson, T., Carlson, C., Drechsel, P., Iseminger, C., **Poltavski, D**., … & Petros, T. (2017). Tracking workload and engagement in air traffic control students using electroencephalography cognitive state metrics. *Proceedings of the International Symposium on Aviation Psychology*, 518-523.

20. **Poltavski, D. P**., Biberdorf, D., & Mark, C. (2016). Association of Asthenopia with sustained attention, accommodation and encephalographic activity. *Vision Development and Rehabilitation, 2(3)*, 155-169.

21. Lederer, P., **Poltavski, D. P.**, & Biberdorf, D. (2015). Confusion Inside Panum's Area and Symptomatic Convergence Insufficiency. *Vision Development and Rehabilitation, 1(1*), 46-60.

22. **Poltavski, D**., & Biberdorf, D. (2015) The role of visual perception measures used in sports vision programs in predicting actual game performance in Division I collegiate hockey players. *The Journal of Sport Sciences*, 33 (6), 597-608. https://doi.org/10.1080/02640414.2014.951952

23. **Poltavski**, D. V., & Biberdorf, D. (2014). Screening for lifetime concussion in athletes: Importance of oculomotor measures. *Brain Injury, 28(4) 475-485*. DOI:10.3109/02699052.2014.888771

24. Jónsdóttir, H. L., Holm, J. E., **Poltavski, D.,** & Vogeltanz-Holm, N. (2014). The Role of Fear and Disgust in Predicting the Effectiveness of Television Advertisements That Graphically Depict the

Health Harms of Smoking. *Preventing chronic disease*, *11*, E218-E218. DOI: 10.5888/pcd11.140326

25. **Poltavski, D. V.** & Weatherly, J. (2013). Delay and probability discounting of multiple commodities in smokers and never-smokers using multiple-choice tasks. *Behavioral Pharmacology*, 24, 659-667. DOI: 10.1097/FBP.0000000000000010

26. Holm, J., Lilienthal, K., **Poltavski, D**., Vogeltanz-Holm, N. (2013) Relationships Between Health Behaviors and Weight Status in American Indian and White Rural Children. *The Journal of Rural Health.* DOI:10.1111/jrh.12010

27. Mills, W. R., Robertson, S. P., Ogard, K. L., Musni, S. R., **Poltavski, D. V**., Kendis, D. R. (2013). Hospital Care of Assisted Living Residents by an Assisted Living Based Primary Care Team. *Home Health Care Management & Practice, 25(3*) 110-114. DOI: 10.1177/10848223|247|340.

28. **Poltavski, D. V.,** Biberdorf, D., & Petros, T. V. (2012)**.** Accommodative response and cortical activity during sustained attention. *Vision Research, 63*, 1 -8. DOI:10.1016/j.visres.2012.04.017

29. **Poltavski, D. V.,** Petros, T. V & Holm, J. E. (2012). Lower but not higher doses of transdermal nicotine facilitate cognitive performance in smokers on gender non-preferred tasks. *Pharmacology, Biochemistry and Behavior, 102,* 423-433. doi:10.1016/j.pbb.2012.06.003

30. **Poltavski, D. V.**, Marino, J., Guido J., Kulland, A., & Petros, T. (2011). Effects of acute alcohol intoxication on verbal memory in young men as a function of time of day. *Physiology and Behavior, 102(1), 91-95*. doi:10.1016/j.physbeh.2010.10.007

31. **Poltavski D. V**., Holm, J. E., Vogeltanz-Holm, N. D., & McDonald, R (2010). Assessing Health-Related Quality of Life in Northern Plains American Indians: Role of physical activity. *American Indian and Alaska Native Mental Health Research, 17(1), 25-48.*

32. Holm J. E., Vogeltanz-Holm, N. D., **Poltavski, D. V**, & McDonald, L. (2010) Health disparities in Northern Plains American Indians: Addressing Behavioral risks, preventive screenings, and health problems. *Public Health Reports, 125 (1*), 68-78.

33. Vogeltanz-Holm, N. D., Holm, J. E., White Plume, J., & **Poltavski, D. V**. (2009). Confirmed Recall and Perceived Effectiveness of Tobacco Countermarketing Media in Rural Youth. *Prevention Science, 10(4),* 325-334. DOI: 10.1007/s11121-009-0134-0

34. **Poltavski, D. V.** & Petros, T. (2006) Effects of transdermal nicotine on attention in adult non-smokers with and without attentional deficits. *Physiology and Behavior,* 87, 614-624. doi:10.1016/j.physbeh.2005.12.011

35. **Poltavski, D. V.** & Petros, T. (2005). Effects of transdermal nicotine on prose memory and attention in smokers and nonsmokers. *Physiology and Behavior,* 83, 833-843. doi:10.1016/j.physbeh.2004.10.005

36. **Poltavski, D. V.** & Muus, K. (2005). Factors associated with incidence of 'inappropriate' ambulance transport in rural areas in cases of moderate to severe head injury in children. *The Journal of Rural Health*, 21(3) 272-277.

37. **Poltavski, D. V.** & Ferraro, F. R. (2003). Stress and illness in American and Russian college students*. Personality and Individual Differences, 34,* 971-982.

38. Muus, K., **Poltavski, D. V.**, & Knudson-Buresh, A. (2003). The influence of demographics and health risk factors on cardiac interventions. *Health Care Discussions, 6,* 24-31.

BOOKS AND BOOK CHAPTERS

1. **Poltavski, D. V**. (2020). *Physiology of Behavior and Psychophysiological Measurement*. Tophatmonacle Corp. https://tophat.com/marketplace/-/-/full-course/physiology-of-behavior-and-psychophysiological-measurement/3089/

2. **Poltavski, D. V**. (2015). The Use of Single-Electrode Wireless EEG in Biobehavioral Investigations. In A. Rasooly and K. E. Herold (eds). *Mobile Health Technologies: Methods and Protocols, Methods in Molecular Biology, 1256*. Springer Science and Business Media, New York. https://doi.org/10.1007/978-1-4939-2172-0_25

3. Vogeltanz-Holm, N.D., Holm, J.E., White Plume, J., Listig-Lunde, L., Kerr, P., **Poltavski, D. V.**, Diers, L., & Alfonso, P. (2008). Youth tobacco use prevention programs: Twenty-five years of research and recommendations for implementing successful school- and community-based programs (pp. 27-89). In M. Lapointe (Ed.), *Adolescent Smoking and Health Research*, Nova Science Publishers, Inc., Hauppauge, NY.

4. **Poltavski, D. V.** (2008). Gender differences in nicotine research: Implications for smoking cessation programs (pp. 147-163). In M. K. Wesley & I. A. Sternbach (Eds.), *Smoking and Women's Health Research*, Nova Science Publishers, Inc., Hauppauge, NY.

5. **Poltavski, D. V.** (2008). Need for the use of physiological measures in gender research with adolescent smokers: Lessons from adult investigations" (pp. 19-25). In M. Lapointe (Ed.), *Adolescent Smoking and Health Research*, Nova Science Publishers, Inc., Hauppauge, NY.

PAPER PRESENTATIONS

Poltavski, D., Biberdorf, D., & Poltavski, C. P. Which Comes First in Sports Vision Training: The Software or the Hardware Update? Utility of Electrophysiological Measures in Monitoring Specialized Visual Training in Youth Athletes. Paper presented at the Annual Conference of the International Sports Vision Association, Frisco, Texas, February 2023. 2023

Poltavski, D., Bernhardt, K., Mark, C., & Biberdorf, D. Frontal theta-gamma ratio is a sensitive index of concussion history in athletes on tasks of visuo-motor control. Paper presented at the Annual Meeting of College of Optometrists in Vision Development. Zoom – Online. 2021

Poltavski, D., Lederer, P. & Kopko Cox, L. VEP markers of mTBI in patients with Convergence Insufficiency (CI). Paper presented at the at the 47th Annual Meeting of College of Optometrists in Vision Development, Jacksonville, Florida, April, 2017. 2017

Poltavski, D. P., Lederer, P.,**.**, & Biberdorf, D. Confusion Inside Panum's Area and Symptomatic Convergence Insufficiency. Paper presented at the 45th Annual Meeting of College of Optometrists in Vision Development, Las Vegas, Nevada, April, 2015. 2015

Poltavski, D. V., & Biberdorf, D. Screening for Lifetime Concussion in Athletes: Importance of Oculomotor Measures. Paper presented at the 44th Annual Meeting of College of Optometrists in Vision Development, San Diego, CA, October 2014. 2014

Poltavski, D. V., & Biberdorf, D**.** The role of visual perception in predicting actual game performance in Division I collegiate hockey players. Paper presented at the 43rd Annual Meeting of College of Optometrists in Vision Development, Orlando, Florida. October, 2013. 2013

Poltavski, D. V., Biberdorf, D., & Petros, T. Visual, electroencephalographic and behavioral differences in individuals scoring low and high on attention measures used in the diagnosis of ADHD. Paper presented at the 41st Annual Meeting of College of Optometrists in Vision Development, Las Vegas 2011

Poltavski, D. V., Holm, J. E., & Vogeltanz-Holm, N. *Prominence of Physical activity as a moderating health behavior in Northern Plains American Indians*. Paper presented at the annual meeting of the Manitoba Association for Behavioral Analysis, Winnipeg, Canada. 2009

Holm, J.E., Vogeltanz-Holm, N., & **Poltavski, D**. *Alcohol, tobacco, and other health risks in Northern Plains American Indians*. Paper presented at the annual meeting of the Kettil Bruun Society for the Social and Epidemiological Study of Alcohol, Maastrich, Netherlands. 2006

Holm, J.E., Vogeltanz-Holm, N.D., **Poltavski, D.**, McDonald, L.R., Kerr, P., & McDonald, F. *Disparities in behavioral risk factors among northern plains Native Americans.* Annual meeting of the National Rural Health Association, New Orleans, LA. 2005

Vogeltanz-Holm, N.D., Holm, J.E., White Plume, J., **Poltavski, D.**, Prom, J., 2005

and Yoder Alfonso, P. *Evaluating youth receptivity of different anti-tobacco messages.* The 2005 National Conference on Tobacco or Health, Chicago, IL.

Vogeltanz-Holm, N.D., White Plume, J., **Poltavski, D.**, Prom. *Native American and rural youth receptivity to an anti-tobacco media campaign: Results from the Plain Truth.* The annual Rural Minority and Multicultural Health Conference, New Orleans, LA 2005

Poltavski, D. V. *Nicotine Replacement Therapy in Interventions for Tobacco Dependence: Gender and Special Populations Considerations.* Annual Meeting of the North Dakota Psychological Association, Fargo, ND. 2005

Holm, J.E., Vogeltanz-Holm, N.D., Marrone, S., Yoder Alfonso, P., White Plume, J., **Poltavski, D.**, Prom, J., Evans, A., Diers, L., & Kerr, P. *Implementing community and school-centered obesity prevention programs in North Dakota.* Annual Dakota Conference on Rural and Public Health, Bismarck, ND. 2005

Poltavski, D., Holm, J.E., Vogeltanz-Holm, N.D., McDonald, L.R., Kerr, P., McDonald, F., White Plume, J. *The obesity epidemic in North Dakota: Examining behavioral risk factors and subpopulation disparities*. Annual Dakota Conference on Rural and Public Health, Bismarck, ND 2005

Vogeltanz-Holm, N., Holm, J. E., White Plume, J., **Poltavski, D.**, Prom, J., & Yoder-Alfonso, P. *Using Mass Media for Preventing Tobacco Use In North Dakota*. The Annual Dakota Conference on Rural and Public Health, Fargo, ND. 2004

Poltavski, D.V., Petros, T. Transdermal Nicotine Effects on Prose Recall and Vigilance in Adult Male Smokers and Non-Smokers. The 10th Annual Meeting of the Society for Research on Nicotine and Tobacco, Scottsdale, AZ. 2004

Muus, K., & **Poltavski, D. V.** Ambulance Transport Patterns for ND Pediatric Patients with Head Trauma. North Dakota EMSC Advisory Committee Meeting, Bismarck, ND. 2003

Poltavski, D. V., & Muus, K. *Prevalence of Inappropriate Ambulance Transport in Cases of Moderate-to-Severe Head Injury in Children.* Scholarly Activities Forum in Association with the University of North Dakota Graduate School, Grand Forks, ND. 2003

POSTER PRESENTATIONS

Poltavski, D. V., Lederer, P., Kopko Cox. Utility of VEP in identifying concussion history in patients with Convergence Insufficiency. The Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, May 1-5, 2016, in Seattle, Washington. 2016

Biberdorf, D., **Poltavski, D. V**., & Petros, T. (2011). Simultaneous measurement of accommodation and eye movements during reading using the WAM-5500 and Visagraph II. 41st Annual Meeting of College of Optometrists in Vision Development, Las Vegas, Nevada. 2011

Poltavski, D. V., Biberdorf, D., & Petros, T. V. (2010). *Interaction of dynamic accommodation and sustained visual attention*. 40th Annual Meeting College of Optometrists in Vision Development, Rio Grande, Puerto Rico 2010

Muus, K., Knudson, A, & **Poltavski, D**. (2004). *Use of Emergency Care for Nonemergent Health Conditions in a Rural State*, San Diego, CA. 2004

Poltavski, D. V., Petros, T. (2004). *Nicotine Effects on Attention: Implications for ADHD Therapy.* The 10th Annual Meeting of the Society for Research on Nicotine and Tobacco, Scottsdale, AZ. 2004

Poltavski, D. V., Petros, T. (2003). *Effects of Trasdermal Nicotine on Prose Memory and Attention*. The 2003 Annual Meeting of the Midwestern Psychological Association, Chicago, IL. 2003

Muus, K., & **Poltavski, D. V.** (2003). *Traumatic Brain Injury: Prevalence & Services.* Annual Dakota Conference on Rural and Public Health, Bismarck, ND 2003

Poltavski, D. V., & Ferraro, F. R (2000). *Stress and Stress-Related Disorders in College Students from a Cross-Cultural Perspective*. The 2000 Annual Meeting of the Midwestern Psychological Association, Chicago, IL. 2000

GRANTS FUNDED

Department of Defense (DOD). PEACE GARDEN Phase 2. University subaward from Applied Research Associated (ARA). Role: **Co-PI.** 2024-2025

Award Amount to the University: $3,000,000.

National Institutes of Health: National Eye Institute (NIH-NIE). *Pediatric Eye Disease Investigator Group (Site # 400).* Subaward from the Jaeb Center for Health Research (JCHR). Role: **PI** 2024-2029

Award amount to the University: $455,410.

The Office of the Vice President for Research & Economic Development (VPRED) 2024-2025

and the Office of the Provost and Vice President for Academic Affairs (VPAA) of the University of North Dakota. Postdoctoral Fellow position in Cognitive Neuroscience. Role: **PI**

Position award: $75,000 per year over 2 years

National Institutes of Health: National Eye Institute (NIH-NIE). SBIR Phase II**.** 2017-2022
A New Approach to Vision Therapy Based on Naturalistic 3-D Computer Gaming. Role: **PI**.

Award amount to the University: $384,599.

North Dakota Department of Commerce, Research ND. Project*: Evaluating the effectiveness of magnocellular visual training for treatment of reading deficits in elementary school children.* Role: **PI**. 2019-2021

Award amount to the University: $88,551.00

Defense Advanced Research Project Agency (DARPA). Small Business Technology Transfer (STTR). Project title: *Optimizing Human-Automation Team Workload through a Non-Invasive Detection System*. Role: **Co-PI.** 2017-2018

Award amount to the University: $40,000.

North Dakota Department of Commerce: Research ND Program. Project title: *Evaluation of the Effectiveness of Sports Vision Programs in Improving Performance and Health in ND Youth Athletes*. Role: **PI** 2015-2017

Award amount: $213,399.

University of North Dakota: Faculty Research Seed Money Award. 2015-2016
Project title: *Evaluation of physiological markers of cognitive load and engagement in simulated air traffic control scenarios as function of visual information processing and graining experience*. Role: PI

Award amount: $9,300.

University of North Dakota: Faculty Research Seed Money Award for the project "*Self-report and Psychophysiological Gender Differences in Smokers Treated with Three Doses of Transdermal Nicotine in response to Stress and Smoking Cues*". Role: **PI** 2007-2009

Award amount: **$22,000.00**

GRANTS SUBMITTED

Poltavski, D. V. Development of a Patient-Reported Outcome Measure (PROM) for 8 to <18-Year-Old Children with Binocular vision and Accommodative (Oculomotor) Disorders. Primary Sponsor. National Institutes of Health through The Ohio State University (awardee). **Role: PI** for the University of North Dakota (sub-awardee). Amount requested (UND): **$186,974**. Performance period: 04/01/2027 - 03/31/2032. Submitted to Sponsor on 07/06/26. Status: under review (review scheduled for 10/28/2026)

Breslin, R (PI), Askelson, M.A (Co-PI), Neubert, J. J. (Co-PI), Theisen, C.J. (Co-PI), Christopherson, B.A. (Co-PI), Wold, J.A. (Co-PI), **Poltavski, D. (Co-PI).** Peregrine. Primary Sponsor: Department of Defense through Applied Research Associates, INC . Project Period: 10/01/2026 - 09/30/2031. Requested Amount to UND: **$9,906,045.26**. Direct Costs: **$7,241,495.73.** Status: under review.

Poltavski, D. (PI). *Advancing a Person-Centered Care and Support Model for People with IDD.* Subaward from BrightSpring Health Services (Mills, PI). Primary Sponsor: Patient Centered Outcomes Research Institute (PCORI). Proposed project period. 01/01/2025 -12/31/2029. UND Total Requested budget **$577,169.** Not funded.

Petros, T. (PI), Cassler, J. (Co-PI), Poltavski, D. (Co-PI) & Tavakolian, K. (Co-PI). Physiological Measures for Precise Prediction of Skill Decay & Cognitive Readiness. Grant submitted to Army Research Institute, **$804,948**. Not Funded.

Petros, T. (PI), **Poltavski, D.** (Co-PI). The Impact of Individual Differences on Multitasking Performance and EEG Measures of Workload and Fatigue. Submitted to DOT - FAA Aviation Research Grants. Submitted on 09/03/2021. Amount requested: $326,616.00. Proposed funding period 06/01/2022 – 05/31/2024. Not funded.

Poltavski, D. (PI), Petros, T. (Co-PI). *"Mid-scale RI-2: Next Generation Researcher Training- Program in Human Factors, Neuroergonomics and Augmented Cognition at the University of North Dakota*." Sponsored by the National Science Foundation (NSF). $24,767,824.00. Submitted March 2021. Not funded.

Poltavski, Dmitri (PI), Petros, Thomas (Co-PI). "*Cognitive and affective gender Differences in abstaining smokers on gender-specific cognitive tasks in Response to acute treatment with three doses of transdermal nicotine*. Sponsored by the National Institutes of Health (NIH). $345,000. Submitted October 2012. Not funded.

INVITED TALKS AND INTERVIEWS

Invited Talk. North Dakota State University. Psychology Department Colloquium Series. Title of the Presentation: *"*Enhancement of attentional and visuo-motor performance in clinical, academic, operational and athletic settings: prominence of oculomotor measures and targeted visual training*."* Fargo, ND, September 2022. 2022

Invited talk. Boeing Human Factors Center of Excellence. Presentation Title: *"*Enhancement of attentional and visuo-motor performance in clinical, academic, operational and athletic settings: prominence of oculomotor measures and targeted visual training*."* Monthly Meeting of the Human Engineering (HE) CoE, June 2022 (virtual). 2022

NeuroChat with Dr. Chris Berka, the founder and CEO of Advanced Brain Monitoring (ABM). https://youtu.be/yKtkPOH5ykk 2020

Grand Forks Best Source Podcast interview. Dr. Biberdorf and Dr. Poltavski with Sports Vision. https://youtu.be/9jqcGO639Qw 2020

UND Today Interview for the article "Crash course for recovery" by Patrick Miller. http://blogs.und.edu/und-today/2020/02/und-research-helps-uncover-concussion-mysteries/ 2020

North Dakota Brain Injury Network Provider's Perspective – Advanced Neuro-Vision Systems. https://youtu.be/surwbb0TYok 2019

Research Spotlight: Screening for Lifetime Concussion in Athletes. UND College of Arts and Sciences https://youtu.be/S1cvYRiK6is 2014

Grand Forks Herald Interview for the article "*Grand Forks man addresses eye Concerns with vision therapy"* by Pamela Knudson. https://www.grandforksherald.com/1152614-Grand-Forks-man-addresses-eye-concerns-with-vision-therapy 2013

Invited Talk: University of North Dakota. Psychology Department Colloquium Series. Title of the Presentation: "Applications of Non-Invasive Brain Stimulation (NIBS) to Psychological Research, Diagnosis and Therapy", Grand Forks, ND, April 2013. 2013

EDITORIAL ACTIVITIES

Guest Editor for Behavioral Sciences. Special Issue**:** *Psychophysiological Markers of Cognitive Fatigue and Mental Workload in Complex Cognitive Tasks and Operational Environments* 2026 – present

Review Editor for *Frontiers in Human Neuroscience: Sensory Neuroscien*ce. 2022 - present

Guest Editor: *Frontiers in Sports and Active Living. Special Topic: Hockey: Testing and Performance*. 2022 - 2023

Ad Hoc Reviewer

- Acta Physiologica
- Annals of Neurology
- Applied Ergonomics
- Brain Injury
- Clinical EEG and Neuroscience
- Clinical Ophtalmology
- Current Psychology
- European Journal of Sport Science
- International Review of Sport and Exercise Psychology
- Journal of Attention Disorders
- Journal of Psychopharmacology

- Journal of Sport Sciences
- Journal of Visualized Experiments (JoVE)
- Nicotine and Tobacco Research
- Optica Applicata
- Psychiatry Research
- Psychophysiology
- Psychology of Sport and Exercise
- Vision Development and Rehabilitation

Textbook Reviewer

- Oxford University Press: Sensation and Perception 2021
  (Wolfe et al., 6th edition). Chapter 3. Spatial Vision.

- Oxford University Press: Neuropsychology. 2014
  Chapter 6: Visuospatial Function. Chapter 7: Executive Function

CONSULTING SERVICES



Founder and Chief Research Scientist, **Advanced Neuro-Vision Systems, LLC**. State-of-the art research based visual assessment, rehabilitation and training program; statistical and research consulting (2017 – present). https://advancedneurovision.com

Skills: Research Design, Statistical Analysis (*ANOVA, ANCOVA, MANOVA, MANCOVA, Repeated Measures, Logistic and Multiple Regressions, Discriminant Analysis, Principal Component Analysis (PCA) Mixed Linear Modeling, GEE*), Grant Writing, Writing for Publication.

Statistical and Scientific Consultant.

- Jaeb Center for Health Research. Pediatric Eye Disease Investigator Group (PEDIG). Clinical Trials (Site # 400). *Research Administrator* (2024 – present).
- BrightSpring Health Services (2020 - present). *Statistical Consultant* https://www.brightspringhealth.com
- Chronic Care Management, Inc. (2019). *Statistical Consultant* https://www.cosangroup.com/#about-us
- Diopsys, INC. (2017). https://diopsys.com/ *Research Reviewer.*
- Van Eck Consulting, LLC (Van Eck Consulting, LLC). 2014. *Program Evaluator.*
- Western Reserve Senior Care. (2012). *Statistical Consultant* https://westernreservemedicalgroup.com
- Tri County Community Corrections, Alcohol and Substance Abuse Program, Crookston, MN (2009 - 2016). *Program Evaluator*
- North Dakota Department of Health, Division of Nutrition and Physical Activity. Communities Putting Prevention to Work (CPPW): State and Territories Initiative., Bismarck, ND (2010 - 2012). Program. *Program Evaluator.*

CONTINUED PROFESSIONAL EDUCATION

NIRx fNIRs Training Course 2019
University of St. Thomas,
Opus College, Minneapolis
Course Directors: Dr. Ted Huppert and Dr. Afrouz Anderson

Berenson-Allen Center for Noninvasive Brain Stimulation 2013
The Harvard Medical School, Boston, MA
Intensive Course in Transcranial Magnetic Stimulation,
53.5 AMA PRA Category 1 Credits
Course Director: Alvaro Pascual-Leone, MD, PhD.

HONORS AND AWARDS

Lenin Academic Scholarship, Moscow State Pedagogical University	1990-1992
National Dean's List	1992-1994
President's Roll of Honor, University of North Dakota	1992-1999
Ben and Marguerite Rodgers German Scholarship, University of North Dakota	1997
Summa Cum Laude in Arts, University of North Dakota	1998
Red Diploma (Summa cum laude), Moscow State Pedagogical University	1998
University of North Dakota Founders Day 25 Years of Service Award	2018
University of North Dakota Leadership Awards: Outstanding Advisor Award	2020

REFERENCES

William Mills, MD 440.368.6868
Senior Vice President for Medical Affairs william.mills@brightspringhealth.com
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805 N. Whittington Parkway
Louisville, KY 40222,

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Optometrist and Vision Researcher david.h.biberdorf@und.edu
PEDIG Clinical Trials PI, Site 400
Department of Psychology,
501 N Columbia Rd, Stop 8380
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Chester Fritz Distinguished Professor of Psychology thomas.petros@und.edu
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