

## CURRICULUM VITAE

DMITRI V. POLTAVSKI, Ph.D

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## EDUCATION

- |   |      |
|---|------|
| University of North Dakota, Grand Forks, ND<br><b>Ph.D. in Experimental Psychology</b><br>Dissertation: “Nicotine Effects on Attention: Implications for ADHD Therapy”                            | 2003 |
| University of North Dakota, Grand Forks, ND<br><b>M.A. in Experimental Psychology</b><br>Thesis: “Effects of Transdermal Nicotine on Prose Memory”  | 2000 |
| University of North Dakota, Grand Forks, ND<br><b>B.A. in Psychology and German</b><br>Honors Thesis: “Stress and Stress-related Disorders in College Students from a Cross-cultural Perspective” | 1998 |
| Moscow State Pedagogical University, Moscow, Russia<br><b>M.A. in English and Linguistics</b><br>Thesis: “Use of Euphemisms in the US Academia”   | 1998 |

## CONTINUED EDUCATION

- |  |      |
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| <b>NIRx fNIRs Training Course</b><br>University of St. Thomas,<br>Opus College, Minneapolis<br>Course Directors: Dr. Ted Huppert and Dr. Afrouz Anderson   | 2019 |
| Berenson-Allen Center for Noninvasive Brain Stimulation<br>The Harvard Medical School, Boston, MA<br><b>Intensive Course in Transcranial Magnetic Stimulation,</b><br>53.5 AMA PRA Category 1 Credits<br>Course Director: Alvaro Pascual-Leone, MD, PhD. | 2013 |

**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

**ACADEMIC APPOINTMENTS**

<b>Associate Professor of Psychology</b> – Department of Psychology, University of North Dakota, Grand Forks. <i>Traditional classroom and online teaching, student supervision, independent research and grant writing / implementation</i>	2015 - present
<b>Assistant Professor of Psychology</b> – Department of Psychology, University of North Dakota, Psychology Department, Grand Forks, ND <i>Traditional classroom and online teaching, student supervision, independent research and grant writing</i>	2009 – 2015
<b>Senior Research Analyst / Assistant Professor of Clinical Neuroscience</b> Center for Health Promotion and Prevention Research, School of Medicine and Health Sciences, University of North Dakota, Grand Forks, ND <i>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.</i>	2003 - 2009
<b>Adjunct Assistant Professor of Psychology</b> – Department of Psychology University of North Dakota, Grand Forks, ND Special topics instructor	2005 -2009
<b>Associate Member of the Graduate Faculty</b> The Graduate School, University of North Dakota, Grand Forks, ND <i>Participation on thesis and dissertation committees</i>	2007 - present

**TEACHING EXPERIENCE**

<b>Department of Psychology, University of North Dakota</b> • BIOLOGICAL BASES OF BEHAVIOR, 330 (ONLINE)	2003 - present
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- PSYCHOPHARMACOLOGY, 594 (ONLINE)
- NEUROPSYCHOLOGY, 594 (classroom and ONLINE)
- MOTIVATION AND EMOTION, 434 (classroom and ONLINE)
- MULTIVARIATE PSYCHOLOGY, 542 (classroom)
- PHYSIOLOGICAL PSYCHOLOGY, 435, 535 (classroom and ONLINE)
- COGNITIVE PSYCHOLOGY, 539 (ONLINE)
- PSYCHOPHYSIOLOGY, 437, 537 (classroom and ONLINE)
- SENSATION AND PERCEPTION, 436 (classroom and ONLINE)
- INTRODUCTION TO PSYCHOLOGY, 101

**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)

## PUBLICATIONS

1. 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>
2. 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>
3. 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>
4. 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>
5. **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>
6. **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](https://doi.org/10.1097/OPX.0000000000001094)
7. 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.
8. **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.
  9. 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.
  10. **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. DOI 10.1007/978-1-4939-2172-0\_25
  11. **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. DOI:10.1080/02640414.2014.951952
  12. **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
  13. 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](https://doi.org/10.5888/pcd11.140326)
  14. **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.000000000000010
  15. 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
  16. 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.
  17. **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
  18. **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

19. **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
20. **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.
21. 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.
22. 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
23. 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.
24. **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.
25. **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.
26. **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
27. **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
28. **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.
29. **Poltavski, D. V.** & Ferraro, F. R. (2003). Stress and illness in American and Russian college students. *Personality and Individual Differences*, *34*, 971-982.

30. 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.

#### PAPER PRESENTATIONS

- Poltavski, D.**, Lederer, P. & Kopko Cox, L. (2017). VEP markers of mTBI in patients with Convergence Insufficiency (CI). Paper presented at the at the 47<sup>th</sup> Annual Meeting of College of Optometrists in Vision Development, Jacksonville, Florida, April, 2017. 2017
- Poltavski, D. P.**, Lederer, P., & Biberdorf, D. (2015). Confusion Inside Panum's Area and Symptomatic Convergence Insufficiency. Paper presented at the 45<sup>th</sup> Annual Meeting of College of Optometrists in Vision Development, Las Vegas, Nevada, April, 2015. 2015
- Poltavski, D. V.**, & Biberdorf, D. (2014). Screening for Lifetime Concussion in Athletes: Importance of Oculomotor Measures. Paper presented at the 44<sup>th</sup> Annual Meeting of College of Optometrists in Vision Development, San Diego, CA, October 2014. 2014
- Poltavski, D. V.**, & Biberdorf, D. (2013). 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. (2011). 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. (2009). *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.** (2006). *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. (2005). *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. (2005). *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, J. (2005). 2005  
*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
- Poltavski, D. V.** (2005). *Nicotine Replacement Therapy in Interventions for Tobacco Dependence: Gender and Special Populations Considerations*. 2005  
Annual Meeting of the North Dakota Psychological Association, Fargo, ND.
- Holm, J.E., Vogeltanz-Holm, N.D., Marrone, S., Yoder Alfonso, P., 2005  
White Plume, J., **Poltavski, D.**, Prom, J., Evans, A., Diers, L., & Kerr, P. (2005).  
*Implementing community and school-centered obesity prevention programs in North Dakota*. Annual Dakota Conference on Rural and Public Health, Bismarck, ND.
- Poltavski, D.**, Holm, J.E., Vogeltanz-Holm, N.D., McDonald, L.R., Kerr, P., 2005  
McDonald, F., White Plume, J. (2005). *The obesity epidemic in North Dakota: Examining behavioral risk factors and subpopulation disparities*. Annual Dakota Conference on Rural and Public Health, Bismarck, ND
- Vogeltanz-Holm, N., Holm, J. E., White Plume, J., **Poltavski, D.**, Prom, J., 2004  
& Yoder-Alfonso, P. (2004) *Using Mass Media for Preventing Tobacco Use In North Dakota*. The Annual Dakota Conference on Rural and Public Health, Fargo, ND.
- Poltavski, D.V.**, Petros, T. (2004). Transdermal Nicotine Effects on Prose 2004  
Recall and Vigilance in Adult Male Smokers and Non-Smokers. The 10<sup>th</sup> Annual Meeting of the Society for Research on Nicotine and Tobacco, Scottsdale, AZ.
- Muus, K., & **Poltavski, D. V.** (2003). Ambulance Transport Patterns for ND 2003  
Pediatric Patients with Head Trauma. North Dakota EMSC Advisory Committee Meeting, Bismarck, ND.
- Poltavski, D. V.**, & Muus, K. (2003). *Prevalence of Inappropriate Ambulance 2003  
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.

- 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 10<sup>th</sup> Annual Meeting of the Society for Research on Nicotine and Tobacco, Scottsdale, AZ. 2004
- Poltavski, D. V.**, Petros, T. (2003). *Effects of Transdermal 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 AWARDED

- National Institutes of Health (NIH). SBIR Phase II. *A New Approach to Vision Therapy Based on Naturalistic 3-D Computer Gaming*. Role: PI. 2017-2019  
**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. 2019-2022  
**Award amount to the University: \$88,551.00**
- Defense Advanced Research Project Agency (DARPA). Small Business Technology 2017-2018



Transfer (STTR). Project title: *Optimizing Human-Automation Team Workload through a Non-Invasive Detection System*. Role: **Co-PI**.

**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. 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**

2015-2016

**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**

#### SERVICE AND REVIEWER DUTIES

Invited Colloquium Speaker: presentation entitled *"Applications of Non-Invasive Brain Stimulation (NIBS) to Psychological Research, Diagnosis and Therapy"*, University of North Dakota

2013

Reviewer for several professional journals: *the Journal of Psychopharmacology, Nicotine and Tobacco Research, Psychiatry Research and Current Psychology*

2006-present

Member of a *Search Committee for a Biostatistician*, School of Medicine and Health Sciences, University of North Dakota

2009

Poster Judge at the 29<sup>th</sup> annual *Frank N. Low Research Conference*, School of Medicine and Health Sciences, University of North Dakota

2009

Grant Reviewer for *the 2007 Faculty Research Seed Money Committee, Behavioral Sciences Subcommittee*, University of North Dakota

2007

#### LANGUAGES

Russian – native language

English – speak fluently and read/write with highest proficiency

German – read with basic competence

#### Technical Software Expertise

**Statistical Software:** SPSS

**Psychophysiological:** Biopac Acqknowledge Acquisition and Analysis

**EEG:** B-Alert Live and B-Alert Lab

**fNIRs:** nirsLAB

**Eye-tracking:** Tobii Studio Professional Software

**Polygraphy:** CPSproFusion.

## REFERENCES

**Petros, Thomas V., Ph.D**

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**Vogeltanz-Holm, Nancy, Ph.D**

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