**CURRICULUM VITAE**

**DAWN MARIE NEUMANN, Ph.D.**

**Business Address:** Rehabilitation Hospital of Indiana  
4141 Shore Dr  
Indianapolis, IN 46254

email: [dmneuman@iu.edu](mailto:dmneuman@iu.edu)

Phone: 3716-713-5048

**Education:** Postdoctoral Research Fellowship, Carolinas Rehabilitation, PMR 2008-2010

Ph.D. Rehabilitation Science, University at Buffalo (SUNY) 2008

M.A. (Cognitive) Psychology, Rutgers University, NJ 1999

Honours B.A. Psychology, Richard Stockton College, NJ 1995

**Employment History:**

Spring 1993 Teaching Assistant, Richard Stockton College, Pomona, NJ

1996-1996 Research Assistant, Learning and Memory Lab, Center for Behavioral and Molecular Neuroscience, Rutgers, New Jersey

1997-1999 Teaching Assistant, Department of Psychology, Rutgers University, Newark, NJ

1997-1998 Cognitive Therapist, Universal Rehabilitation, Livingston, NJ

1998-1999 Cognitive Therapist, Cognitive Remediation Program, Kessler Institute for Rehabilitation, East Orange, NJ

1999-2000 Cognitive Therapist, Headways, Oradell, NJ

2000-2001 Director of Cognitive Therapy, Universal Rehabilitation, Livingston, NJ

2001-2002 Neurorehabilitation Specialist and Community Relations Representative, Community Skills Program, Marlton, NJ

2002-2003 Research Assistant, Department of Rehabilitation Science, State University of New York at Buffalo

2003-Summer Community Integration Counselor for persons with brain injury, Venture Forthe, Niagara Falls, NY

2003-2007 Teaching Assistant, Department of Rehabilitation Science, State University of New York at Buffalo

2008- 9/2010 Postdoctoral Fellowship, Carolinas Healthcare System, Carolinas Rehabilitation, Charlotte, NC

10/ 2010- 12/2015 Assistant Research Faculty, School of Medicine, Department of Physical Medicine and Rehabilitation at IU

10/2010-06/2017 Clinical Research Associate at Rehabilitation Hospital of Indiana.

08/2012-2017 Managing member and founder, EmotEd, LLC

11/2013-04/2023 Director, IU Interactive and Functional Assessment of Communication and Emotion Center (InterFACE) at the Rehabilitation Hospital of Indiana

12/ 2015- 06/2017 Assistant Professor, School of Medicine, Department of Physical Medicine and Rehabilitation at IU

07/2017-02/2023 Research Director, Rehabilitation Hospital of Indiana

07/2017-Present Associate Professor (tenured) and Research Director, School of Medicine, Department of Physical Medicine and Rehabilitation at IU

9/2019-Present Adjunct Faculty, Purdue School of Engineering and Technology

**Awards, Honors, and Special Training:**

* *Psi Chi National Honor Society, 1995*
* *2nd Place Poster Presentation, A universal similarity function?: magnitude estimates for face-like exemplars, 1998*
* Advanced Graduate Certificate in Assistive and Rehabilitation Technology, Department of Rehabilitation Science, University at Buffalo, 2005
* Certificate in Advanced Rehabilitation for Persons with Acquired Brain Injury, Level 2 (Ontario Brain Injury Association and Brock University, 2005)
* Selected participant for the Enhancing Rehabilitation Research in the South (ERRIS) 2009 workshop program.
* fMRI Visiting Fellowship Course, MGH/MIT/HMS Athinoula A. Martinos Center for Biomedical Imaging, October 3-7, 2011
* Recipient of the Mark Diamond Research Fund award, 2006
* Recipient of Mary E. Switzer Merit Fellowship (NIDRR), 2011
* Recipient of Deborah L. Wilkerson Early Career Award (ACRM), 2013
* Leadership in Academic Medicine Program (LAMP), IU School of Medicine 2013-2014
* Prestigious External Award Recognition recipient, IUPUI, 2014
* Fellow, American Congress of Rehabilitation Medicine (ACRM) October 2017
* Communicating Science Workshop, Indiana University Faculty Development (June-July, 2017)
* ACRM Mitchell Rosenthal Mid-Career Award (October 2018)
* RHI Advisory Board Education (Leadership Training Program) (2019)
* 2019 David Strauss Award, ACRM Brain Injury Interdisciplinary Special Interest Group
* 2020 Joshua Cantor Scholar Award, ACRM Brain Injury Interdisciplinary Special Interest Group
* Bystander Intervention Training, Showing Up for Racial Justice (Indy SURJ), August 2020
* Implicit Bias Training, Indiana School of Medicine, September 2020
* Responding to Instances of Racism, Discrimination, and Microaggressions in Academic Medicine, Indiana School of Medicine workshop, September 2020
* INESSS -ONF-Sexuality and Intimacy TBI Guidelines Workgroup (invited) (October 2020-present)
* Implementing Conversations to Advance Racial Equity (ICARE), Indiana School of Medicine workshop, December 2020
* Member, IUPUI Translating Research into Practice (TRIP) Scholar
* Service Commendation, ACRM (December 2021)

**Related Professional Activities:**

Professional and Distinguished Memberships

1995-2003: Affiliate member, American Psychology Association

1997-1998: Member, Rutgers Cognitive Neuroscience Research Group

1997-1998: Member, Rutgers Graduate Student Government Assoc.

2000-2003: Member, Society for Cognitive Rehabilitation

2002-2003: Member, Counseling and Rehabilitation

2007- present: Member, American Congress of Rehabilitation Medicine (ACRM)

2008-2012: Member, Newsletter Committee, Carolinas Rehabilitation TBIMS

2010- 2011: Member, International Society for Research on Emotion

Committee Positions

1994-1995: Member, Faculty Review Committee, Richard Stockton College

1994-1995: President, Psychology Club Richard Stockton College

2006- 2008: Secretary of the Board of Members, Headway of Western New York, Inc,

2008-2012: Chair, TBI Advisory and Relationship Conference Planning Committee, Carolinas Rehabilitation TBIMS

2010- 2010: Member, Internal Review Board Committee, Carolinas HealthCare System

2011- present: Member, Indiana University, Center for Brain Rehabilitation, Advanced Imaging and Neuroscience Committee

2012-2013: Chair, Planning Committee for new IU Interactive and Functional Assessment of Communication and Emotion Center (InterFACE) at the Rehabilitation Hospital of Indiana

2013-present Chair, Relationship Conference Planning Committee, Indiana University/ Rehabilitation Hospital of Indiana TBIMS

2014- present: Member, Conference Program Planning Committee, ACRM

2014-present: Member, IU Faculty Recruitment Committee

2015-Present: Member, Indiana University School of Medicine and RHI Model System Consumer Advisory Committee

2016-Present: Appointed member, IU Faculty Development Coordinating Committee

2017-2017: RHI Day of Giving Planning Committee

2017-Present: TBIMS Knowledge Translation Committee

2018- Present: RHI Website Redesign Committee

2018- Present: RHI Building New Brain Injury Unit Committee

2019- Present:  IU OT Department Advisory Council

2019- Present: RHI Community Benefits Planning Committee

2019-Present: TBIMS Behavioral Health Special Interest Group

2019-Present: TBIMS Caregiver Special Interest Group

2020- Present: RHI Research and EBP Planning Week Committee (renamed: Clinical Application of Research and Evidence (CARE))(Chair)

2008-Present: TBI Model System Knowledge Translation Committee, Member

2008-Present: Member, American Congress of Rehabilitation Medicine (ACRM)

2010- 2017: Member, ACRM, Early Career Course Planning Task Force

2012- 2014 Member-at-Large, ACRM, Board of Governors

2012-2014: Chair, ACRM, Early Career Networking Group (ECNG)

2012-2016: Member, ACRM, Membership Committee

2013- 2016: Chair, ACRM, ECNG Communications Task Force

2014-2018: Program and Awards Officer, Brain Injury Interdisciplinary Special Interest Group, ACRM (elected)

2015-2016: Past Chair, ACRM, Early Career Networking Group

2017-2018: Past Chair, ACRM, ECNG Communications Task Force

2016-2017 Member, “Chat with the Experts” Program Planning Subcommittee

2018-2022 Awards Officer, Brain Injury Interdisciplinary Special Interest Group, ACRM (elected)

2017- present: Member-at-Large, ACRM, Board of Governors (elected 2 terms)

2020- present: Mentor, ACRM (Early Career Networking Group)

2019-Present: TBI Model System Behavioral Health SIG

2019-Present: TBI Model System Caregiver SIG

2020-Present: TBI Model System Cultural Health SIG

2020-2022: INESSS -ONF-Sexuality and Intimacy TBI Guidelines Workgroup (invited)

2021-Present: RHI Diversity Equity and Inclusion Committee, Member and Co-Chair of Education and Resource Task Force

2019-2022: Co-Chair of RHI/ IUSM PMR Clinical Application of Research and Evidence (CARE Week) Planning Committee

Journal and Grant Reviews Committees

2008- present: Ad hoc Reviewer, *Brain Injury*

2010- present: Ad hoc reviewer, *Archives of Physical Medicine and Rehabilitation*

2012- present: Member, Editorial Review Board, *Journal Head Trauma Rehabilitation*

2017: Special Topic Editor (Emotional Issues after TBI), *Journal Head Trauma Rehabilitation*

2012- present: Ad hoc reviewer, *International Journal of Neuroscience*

2012- present: Ad hoc reviewer, *Behavioral Sciences*

2018- present: Ad hoc reviewer, *Journal of the International Neuropsychological Society*

2013-present: Ad hoc grant review committee, Indiana University Collaborative Research Grant

2014-Present Grant Reviewer, National Institute on Disability and Rehabilitation Research

2018-present: Ad hoc grant review committee, Department of Defense

2019: Special Topic Co-Editor (Neurobehavioral Changes after Acquired Brain Injury), *Frontiers in Neurology*

2021-Present Member, Editorial Board, *Journal of Emotion and Psychopathology*

**Teaching Activities:**

Lessons/ classes

1993 Spring: Teaching Assistant for Introduction to Statistics, Richard Stockton College

1997-1999: Teaching Assistant for Research Methodology, Rutgers University

2003-2007: Teaching Assistant for Medical Terminology, University at Buffalo

2004-2006 Teaching Assistant for Neuroanatomy Lab, University at Buffalo

Spring 2005: Guest lecture: Brain Injury and Job Accommodations

2008-2010: Didactic Research Modules for Residents, Carolinas Rehabilitation Physical Medicine and Rehabilitation

2008-2010: Research Assistant /Student training and supervision, Carolinas Rehabilitation Physical Medicine and Rehabilitation

11/2010 Grand Rounds, Emotional Processing and Regulation Deficits after Traumatic Brain Injury. Psychiatry, IUSM, Indianapolis, IN.

03/ 2012 TBI Didactic Series for Residents, IU School of Medicine, Physical Medicine and Rehabilitation; Emotion Recognition and Regulation after TBI

2010-Present: Didactic Research Modules for Residents, IU School of Medicine, Physical Medicine and Rehabilitation Residents

02/2013 PMR Research Education and Team Meetings. Review of NSF Day: What type of research do they fund? IUSOM, Department of PMR. 10 attendees

06/ 2013 PMR Research Education and Team Meetings. Attributions of hostile intent and the relationship with irritability and anger after traumatic brain injury. IUSOM, Department of PMR. 10 attendees

06/24/13 PMR Research Education and Team Meetings. Alexithymia after brain injury and its relationship with trait aggression, negative attribution styles, and empathy. IUSOM, Department of PMR. 10 attendees

09/30/2013 PMR Resident TBI Didactic Series. Emotion Recognition and Regulation after TBI. IUSOM, Department of PMR.

01/ 2016 TBI Didactic Series for Residents, IU School of Medicine, Physical Medicine and Rehabilitation; Emotion Recognition and Regulation after TBI

12/ 2017 TBI Didactic Series for Residents, IU School of Medicine, Physical Medicine and Rehabilitation; Emotion Recognition and Regulation after TBI

02/20/2018 TBI and Subsequent Emotional Changes, Guest lecture, Pathophysiology Course, IUPUI School of Health and Rehabilitation Sciences, Department of Occupational Therapy

01/09/2019 Scientific Writing and Presentations, IUSM PMR Resident Research Didactic Series

05/17/2019 Emotion Dysregulation after Brain Injury: The Role of Alexithymia and Early Insights Regarding Treatment, Distinguished Grand Rounds Series, Spaulding Rehabilitation Hospital, Boston, Massachusetts.

09/23/2020 TBI Didactic Series for Residents, IU School of Medicine, Physical Medicine and Rehabilitation; Emotion Recognition and Regulation after TBI

08/18/2021 Scientific Writing and Presentations, IUSM PMR Resident Research Didactic Series

Student Supervision:

02/2014-08/2014: Masters Thesis Supervisor (Eleanor Luckcock), Examining Left Visual Neglect in Stroke Patients. From University of Maastricht, Psychology Program.

5/2014-8/2014 Summer Internship, Undergraduate Student (Michael Conner); assisted with all lab activities

05/2015-05/2017 Dissertation committee member, Student doctoral dissertation (Trevor Langston): Changes in depression, anxiety, and coping following alexithymia treatment for people with brain injury. University of Indianapolis, School of Psychological Sciences.

10/2016 IU Medical Student Research Elective, Anthony Kenrick. Supervised project evaluating eye-tracking performance during a facial affect recognition task. Culminated in abstract submission and poster presentation at the International Brain Injury Association conference in March of 2017.

09/2016-05/2017 Indiana University Life Health Science Intern, Emma Wolter (IUPUI Undergraduate student), student project. Won best oral presentation describing project evaluating the association between eye-tracking and emotion perception after TBI.

06/2017-07/2017 IU Summer Internship Program, Amogh Sehgal (Undergraduate pre-med student, Butler University)

11/2017 Research Elective, Medical Student, Michael Eaton. Project: Heart Rate Variability Analyses and Virtual Reality.

12/01/2017 External Doctoral Thesis Reviewer, University of Ontario, Rehabilitation Sciences Institute, Thesis title: The Impact of Semantic Threat on Cognitive and Linguistic Processing Involved in Spoken Language Following a Traumatic Brain Injury.

07/2018-2019 IU Medical Student, Noelle Witwer, Research Elective (Ambiguous Intentions and Hostility Questionnaire; literature review, data analyses, abstract preparation and submission (accepted and won award at ACRM); 2 published manuscripts

12/2018 IU Medical Student, Paxton Ott, Unofficial Research Elective (literature review on alexithymia and sex differences)

10/2019 Doctoral student, Rachel Bailey, at University of Indianapolis, School of Psychological Sciences. Scientific abstract development and submission. Acceptance to two conferences for oral presentations.

09/2019-present Master’s Thesis Committee, Naz Iffat Syeda, Purdue School of Engineering and Technology, *Machine Learning Classification of Facial Affect Recognition Deficits after Traumatic Brain Injury for Informing Rehabilitation Needs and Progress*

3/16/21-4/29/21 Supervisor for Sara Nemes, Biomedical Lab Rotation, IUSM BioMedical Gateway (IBMG) Doctoral Program

08/2021-present Medical Student research project mentorship (J. Brent)

08/2021-05/2022 Ball State Master’s Student Internship (R. Hill)

09/2021-present PGY 2 IUSM PMR Resident Scholarly Project mentorship (M. Pazzol)

**Community Service:**

* Member, Committee for Advocacy and Public Affairs, Brain Injury Association, 2002
* Member, Beacon Park Condominium Board Association (2006 – May 2008)
* Tour Guide, Gross Anatomy Lab and Neuroanatomy Museum at the University at Buffalo (2005-Spring 2008)
* Secretary of the Board of Members of Headway of Western New York, Inc (2006 –Spring 2008)
* Chair, Fundraising committee (Spring 2007) for Headway of Western New York, Inc
* Support Group presentation: Neumann, D. (2009, February). Guest Speaker for Brain Injury Support Group Meeting, Footprints Carolina, Gastonia, NC: Emotions after TBI.
* Support Group presentation: Neumann, D. (2009, June). Guest Speaker for the Union County Area Brain Injury Support Network, CMC-Union, Monroe, NC: Emotions after brain injury and interpersonal relationships.
* Support Group presentation: Neumann, D. (2009 April). Guest Speaker Charlotte Brain Injury Support Network, Carolinas Rehabilitation-Mecklenburg County, Charlotte, NC: Reading and Expressing Emotions after Brain Injury.
* Support Group presentation: Neumann, D. (2009, October). Guest Speaker for Rock Hill, SC Brain Injury Support Group. Behavior Issues and Emotional Changes after TBI.
* Support Group presentation: Neumann, D. (2010, January). Guest Speaker for the Lake Norman Brain Injury Support Group Network, Lake Norman Region Medical Center, Mooresville, NC: Emotional and behavioral changes after brain injury.
* Support Group presentation: Neumann, D. (2010, March). Guest Speaker for the Union County Area Brain Injury Support Network, CMC-Union, Monroe, NC: Addressing emotions and behavioral changes after brain injury.
* Support Group presentation: Neumann, D. (2014, October 27). Guest Speaker for Bridging the Gap Brain Injury Support Group at the RHI NeuroRehabilitation Center , Indianapolis, IN: Tips for improving relationships after brain injury.
* Support Group presentation: Neumann, D. (2014, November 3). Guest Speaker for Indianapolis Brain Injury Support Group at the Rehabilitation Hospital of Indiana, Indianapolis, IN: Tips for improving relationships after brain injury.
* Support Group presentation: Neumann, D. (2018, July). Guest Speaker for Brain Injury Support Group at the RHI NeuroRehabilitation Center , Indianapolis, IN: Negative Attributions and Anger after Brain Injury.
* Neumann, D., Backhaus, S, Ibarra, S, Tsaousides, T. Help Me, Help You: Building Better Relationships after Brain Injury (A survivor and caregiver workshop), Indianapolis, IN September 16-17,2018.
* Support Group presentation: Neumann, D. (2018, November). Guest Speaker for Brain Injury Support Group at the RHI NeuroRehabilitation Center , Indianapolis, IN: Emotion Regulation
* **Neumann, D.** My Emotional Compass App. Brain Injury and Technology Education and Support Group. Indianapolis, IN, January 17, 2019.
* **Neumann, D.** Emotional Awareness and Regulation after TBI. Webinar presentation for Survivor/ Caregiver Education Series, ReMed, 9/21/20
* **Neumann, D.** Managing emotions after brain injury. BIAA Caregiver Webinar. 10/8/20

**Invited Oral Presentations:**

1. **Neumann, D.,** and Zupan, B. (2007, September). Guest speakers for the Department of Applied Linguistics Research Seminars at Brock University, Ontario, Canada: Controlled Study of Affect Recognition Training for Individuals with Traumatic Brain Injury.
2. **Neumann, D.,** Zupan, B. and Willer, B. (2008, October). Successful treatment of emotion recognition problems for persons with TBI Invited Platform Presentation, 2008 Brain Injury Conference of the Americas, the North American Brain Injury Society, New Orleans, LA.
3. Zupan, B. and **Neumann, D.** (2009, October). Panel Presentation: Training for Emotional Inferencing Difficulties in TBI, North American Brain Injury Society’s 7th Annual Conference on Brain Injury, Austin, Texas.
4. **\*Neumann, D.** (2010, November). Emotional Processing and Regulation Deficits after Traumatic Brain Injury. Psychiatry Grand Rounds, IUSM, Indianapolis, IN.
5. \*Hammond, F. **Neumann, D**., Backhaus, S., Tsaousides, T. and Stejskal, T. (September, 2012). Help Me, Help You: Learn How to Build Better Relationships after Brain Injury Relationship Conference. Concord, NC.
6. **\*Neumann, D.,** Backhaus, S., Tsaousides, T., Stejskal, T., Hammond, F. (2013, February). *Tips for Improving Relationships after Brain Injury*, North Carolina Brain Injury Association Family Conference February 22, 2013: Building Community from the Inside Out, High Point, NC.
7. **\*Neumann, D**., Babbage, D., Zupan, B., Hammond, F., Willer, B. (2013, September). An evidence-based approach to treatment of impaired emotion recognition among individuals with TBI. Brain Injury Association of Indiana Fall Conference, Indianapolis, IN, September 12, 2013.
8. **\*Neumann, D.,** Backhaus, S., Tsaousides, T., Stejskal, T., Hammond, F. (2013, September). *Tips for Improving Relationships after Brain Injury*, Brain Injury Association of Indiana Fall Conference - Family Affair, September 14, 2013.
9. **\*Neumann, D**. (November 2013). Alexithymia after brain injury: What it is and why it deserves more attention. Deborah Wilkerson Early Career Award Lecture. 90th ACRM Annual Conference, Progress in Rehabilitation Research, 12-16, Orlando, Florida, November 2013.
10. **\*Neumann, D.** (February 2014). Emotion Recognition and Regulation after Traumatic Brain Injury. BrainHealth Frontiers, the University of Texas, at Dallas, Lunch Lecture Series, February 28, 2014.
11. **\*Neumann, D.** (August 2014). Evidence for Non-Pharmacologic Management of Aggression in Brain Injury. 2nd Annual Brain Injury Rehabilitation Conference, IUSM, PMR, Goodman Hall, IU Health Neuroscience Building, 355 W. 16th St., Indianapolis, IN 46202
12. **\*Neumann, D.,** Backhaus, S, Ibarra, S, Tsaousides, and Hammond. (2014) *Help me, Help you: Building Better Relationships after Brain Injury.*Caregiver conference. IUSM Neuroscience Center of Excellence, Indianapolis, IN, September 5-6, 2014.
13. **\*Neumann, D.** (January 2015). Alexithymia: Disorders of Emotion Regulation. Brain Injury Summit, Meeting of the Minds. Vail, Colorado; January 11-14, 2015.
14. \*Hammond, F. and **Neumann, D.** (April 2015). Evidence for pharmacological and non-pharmacological management of aggression after brain injury. North American Brain Injury Society (NABIS) 12th Annual Conference on Brain injury, Austin, TX, April 29-May 2, 2015.
15. **\*Neumann, D.** (July 2015). Evidence-based treatment for emotion recognition deficits after brain injury. Brain Injury Association of America, Mitch Rosenthal Memorial Research Series Live Webinar.
16. \***Neumann, D.** and Herrold, A. (October 2015) Grab the bull by the horns and steer your career in the direction you want. An oral presentation as part of the Early Career Development Course at the 92nd ACRM Annual Conference, Progress in Rehabilitation Research, 27-30th, October, Dallas, Texas.
17. **\*Neumann, D.** (April 2, 2016). Evidence-Based Treatment for Emotion Recognition Deficits after Brain Injury. Carle Neuroscience Symposium, April 2-3, Urbana, Illinois.
18. **\*Neumann, D**. (Sept 2016). Traumatic Brain Injury and Subsequent Socio-emotional Changes.2016 Annual ISETT Meeting, September 17, 2016, Indianapolis, IN.
19. **\*Neumann, D.** and Zupan, B. (January 2018). Social Cognition and brain injury: What clinicians need to know. Brain Injury Summit, Meeting of the Minds. Vail, Colorado; January 7-10, 2018.
20. **\*Neumann, D.** and Zupan, B. (January 2018). Alexithymia. Brain Injury Summit, Meeting of the Minds. Vail, Colorado; January 7-10, 2018.
21. \***Neumann, D.,** (March 2018). Managing emotional dysregulation in adults with TBI. Rottman Research Institute pre-conference workshop, Toronto, Ontario, Canada, March 19-21st, 2018.
22. **\*Neumann, D.** and Zupan, B. (March 2018). Social Cognition and brain injury: What clinicians need to know. Research Seminar (via Webinar), Casa Colina Hospital and Centers for Healthcare, Pomona, California, March 23, 2018.
23. **Neumann, D,** Certo, D., Gaff-Clark, C., Osburn, F., Reichard, R., Bisbecos, P**: "TBI & Domestic Violence Panel: Risk Factors for Criminality & Domestic Violence.** 2nd Annual Brain Injury & Resource Facilitation Regional Conference. Indianapolis, IN, August 28, 2018.
24. **Neumann, D.** Emotion Dysregulation after Brain Injury: The Role of Alexithymia and Early Insights Regarding Treatment. Spaulding Grand Rounds Distinguished Lecture Series. Boston, Massachusetts. November 9, 2018.
25. **Neumann, D. and** Eberle, R.Assessments and Treatments for Social Cognition Deficits after TBI. 39th Annual Neurorehabilitation Conference on Traumatic Brain Injury, Stroke and other Neurological Disorders. November 10-11, 2018.
26. **Neumann, D.** Improving emotional regulation after brain injury through alexithymia treatment. Annual Council on Brain Injury Conference, New Advances in Rehabilitation. April 9, 2019, Pittsburgh, PA. (Keynote)
27. **Neumann, D.** Treating Facial Affect Recognition Deficits after Brain Injury**.** Mayo Brain Injury Conference on June 14, 2019, Mayo Clinic, Rochester, MN. (Keynote)
28. **Neumann, D.** Negative Attribution Bias: A New Perspective on Anger after Brain Injury**.** Mayo Brain Injury Conference on June 14, 2019, Mayo Clinic, Rochester, MN.
29. **Neumann, D.** Treating Emotion Perception Deficits after TBI. Rehabilitation Conference 2019-“Living With”, Oslo, Norway, September 11, 2019.
30. **Neumann, D.,** Social Cognition After Brain Injury. Neuropsychology TBI Didactics, October 4, 2019, RHI Northwest Brain Injury Center, Indianapolis, IN.
31. **Neumann, D.** Steer Your Career in the Direction of Promotion & Tenure with an Individualized Development Plan (Early Career Development Course), ACRM 96th Annual Conference, Chicago, IL, November 5, 2019.
32. **Neumann, D.** Know Thy Emotions: A New Treatment Approach for Emotion Regulation after Brain Injury**.** 2019 Provincial ABI Conference, Forging New Pathways, Navigating Challenges, Exploring Breakthroughs (Ontario Brain Injury Association). November 7, 2019, Niagara Falls, Ontario. (Keynote)
33. **Neumann, D.** Negative Attribution Bias: A New Perspective On Anger & Aggression after Brain Injury and Implications for Treatment**.** 2019 Provincial ABI Conference, Forging New Pathways, Navigating Challenges, Exploring Breakthroughs (Ontario Brain Injury Association). November 7, 2019, Niagara Falls, Ontario.
34. **Neumann, D.** Social Cognitive Impairments-Clinical and Scientific Approaches to Evaluation and Intervention. New Orleans, Louisiana. ABI 2020. February 26-29, 2020.
35. **Neumann, D.** Know Thy Emotions: A New Treatment Approach for Emotion Regulation after Brain Injury**.** Ottowa, Brain Injury Awareness Day, Ottowa, Ontario. June 10, 2020 (CANCELLED DUE TO COVID-19)
36. **Neumann, D.** Know Thy Emotions: A New Treatment Approach for Emotion Regulation after Brain Injury**.** Kingston Brain Injury Conference, Kingston, Ontario. June 11, 2020 (CANCELLED DUE TO COVID-19)
37. **Neumann, D**. Negative Attribution Bias: A New Perspective On Anger & Aggression after Brain Injury and Implications for Treatment**.** Kingston Brain Injury Conference, Kingston, Ontario. June 11, 2020. (CANCELLED DUE TO COVID-19)
38. **Neumann, D**. Reducing emotion dysregulation through emotional awareness training after brain injury.40th Annual Neurorehabilitation Conference on Traumatic Brain Injury, Stroke and other Neurological Disorders (BrainTree). Boston, Massachusetts. November 7-8, 2020.
39. **Neumann, D**. A New Perspective On Anger & Aggression after Brain Injury: Implications for Assessment and Treatment. 40th Annual Neurorehabilitation Conference on Traumatic Brain Injury, Stroke and other Neurological Disorders. (BrainTree). Boston, Massachusetts. November 7-8, 2020.
40. Sakel, M., Kommu, S., Duffield, R., Nagpaul, C., Rao, M., Emmanuel, M., Saunders, K., Walton, L., Aftab, S., Shrotri, N., **Neumann, D.** Evolving Trends in Vulnerabilities and Impact during COVID-19. Panel Member. Live Webinar (Hosted by UK), March 5, 2021.
41. **Neumann, D.** Negative Attributions and Anger after Brain Injury: Risk Factors, Assessment, and Implications for Treatment.National Intrepid Center of Excellence (NICoE) Lunch and Learn Series at WRNMMC NICoE, Bethesda, MD, March 17, 2021 (Virtual Presentation).
42. **Neumann, D.,** Emotional Processing After Traumatic Brain Injury: A Look into Alexithymia.Neuroscience Clinical Research Services Education Session, March 22, 2021.
43. **Neumann, D.,** Negative Attributions and Anger After Brain Injury: Risk Factors, Assessment, and Implications for Treatment. Brain Injury Alliance of New Jersey, 2021 Virtual Annual Professional Seminar: Exploring and Navigating the Scope and Diversity of Brain Injury, May 11, 2021.
44. Sotto, S., Cultural Humility: A Foundation for Racial Equity in Academic Rehabilitation Medicine” Plenary Session and moderated by **Neumann, D.** at ACRM 98th Annual Conference, Dallas, Texas (Virtual), September 26-29, 2021.
45. **Neumann, D**., Negative Attributions and Anger after Brain Injury: Risk Factors, Assessment, and Early Efficacy of a New Treatment. VA Palo Alto/Stanford Med Polytrauma Remote Seminar series, December 7, 2021.
46. **Neumann, D**. Alexithymia and Brain Injury. Building Brain Awareness Seminar Series.February 2, 2023 (virtual).
47. **Neumann, D**. Clinical Tools to Make Inclusion of Social Cognition and Treatment into Brain Injury Rehabilitation a Reality. Pre-conference Course (Invited Chair). Talk: *Assessment and Treatment of Negative Attributions (ICAN).* 14th World Congress on Brain Injury, Dublin, Ireland, March 29, 2023.

**Selected Oral Presentations:**

1. **Neumann, D.,** Zupan, B. and Willer, B. (2006, September) Treatments for individuals with deficits in affect recognition. Plenary Session, 2006 Brain Injury Conference of the Americas, the North American Brain Injury Society, Miami, Florida.
2. **Neumann, D.,** Zupan, B. and Willer, B. (2007, October) Controlled Study of Affect Recognition Training for Individuals with Traumatic Brain Injury. Oral Paper Presentation, 2007 ACRM-ASNR Annual Educational Conference at the Renaissance Hotel in Washington, DC
3. Babbage, D., **Neumann, D.,** Zupan, B., and Willer,B. (2009, May) Frequency of facial affect recognition difficulties after traumatic brain injury. Oral presentation at the National Association of Rehabilitation Research and Training Centers (NARRTC) 2009 Annual Conference, Arlington, VA; May 4-5.
4. **Neumann, D**. (2009, May) Recognizing Emotions in Others After a Brain Injury: Implications and Successful Treatment Approaches. Oral Presentation, South Carolina Brain Injury Association Conference, Life with a Brain Injury 2009 Statewide Conference, May 14-15.
5. **Neumann, D.,** Zupan, B. Babbage, D., Tomita, M., and Willer, B. (2010, October), Improving Facial Affect Recognition in Persons with TBI. Symposium: Improving Interpersonal Competence in Individuals with TBI. 2010 ACRM-ASNR Annual Educational Conference in Montreal, Canada.
6. Hammond, F., **Neumann, D.**, and Hart, T. (2011, June), Connections between Impaired Emotion Recognition with Irritability, Aggression and Perceived Relationship Quality. Symposium: Regulation Of Irritability, Anger And Aggression After Traumatic Brain Injury: Review Of Pharmacologic And Non-Pharmacologic Treatments. 2011 Federal Interagency Conference on Traumatic Brain Injury; Washington, DC.
7. **Neumann, D.,** Turkstra, L., and Zupan, B. (2011, June), Using personal experiences and psychosocial methods to study emotional responses after TBI. Symposium: Studying Emotional Responses in Persons with Traumatic Brain Injury. 2011 Federal Interagency Conference on Traumatic Brain Injury; Washington, DC.
8. Willer, B; **Neumann, D**; Radnovich, AJ; Babbage, D; Zupan, B; and Tomita, M.  (2011, September), Empathy, affect recognition and dysosmia in persons with TBI.  North American Brain Injury Society, New Orleans, LA.
9. Willer, B., **Neumann, D**., Zupan, B., Babbage, Tomita, M. (2012, March), Loss of sense of smell from traumatic brain injury and perceived changes in empathy and interpersonal support. International Brain Injury Association, Edinburgh, Scotland.
10. Zupan, B. and **Neumann, D.** (2012, March), Using emotional and neutral film clips to investigate impaired affect recognition and empathic responses after TBI. International Brain Injury Association, Edinburgh, Scotland.
11. **Neumann, D**., Zupan, B., and Hammond, F. (2012, March), Do Affect Recognition and Alexithymia Contribute to Empathy After Traumatic Brain Injury?, International Brain Injury Association, Edinburgh, Scotland.
12. Zupan, B., Babbage, D.R., **Neumann, D**., & Willer, B. (2012, September). Recognition of nonverbal facial and vocal affect after traumatic brain injury. Paper presented at the North American Brain Injury Society’s Tenth Annual Conference on Brain Injury, Miami, FL.
13. Bartel, S., **Neumann, D**., Zupan, B., Babbage, D.R., & Willer, B. (2012, September). Factors Related to Community Integration and Relationship Quality after Traumatic Brain Injury. Paper presented at the North American Brain Injury Society’s Tenth Annual Conference on Brain Injury, Miami, FL.
14. Willer, B., Hammond, F., **Neumann, D**., Babbage, D., Zupan, B. (2012, October). Assessment and treatment of emotion recognition impairment after brain injury. *Instructional Course* ACRM Annual Educational Conference, Vancouver, Canada.
15. Willer, B., **Neumann, D**., Babbage, D., Zupan, B., Tomita, M. (2012, October). An evidence-based approach to treatment of impaired emotion recognition among individuals with TBI. *Symposium.* ACRM Annual Educational Conference, Vancouver, Canada.
16. **Neumann, D**. Malec, J., and, Hammond, F. (2013, July Datablitz). You did that on purpose!: Irritability and anger after traumatic brain injury may be related to cognitive attribution styles. Conference of the 10th Neuropsychological Rehabilitation Special Interest Group of the World Federation of NeuroRehabilitation (WFNR), Maastricht, Netherlands.
17. Kean, J. **Neumann, D**., Hammond, F., and Malec, J. (2013, November). The role of attribution and other factors in irritability and aggression after TBI. Symposium: Post-TBI Irritability and Aggression: New Findings and Clinical Implications. 90th ACRM Annual Conference, Progress in Rehabilitation Research, 12-16, Orlando, Florida, November 2013.
18. Zupan, B., **Neumann, D.,** Babbage, D.R., & Willer, B. (2014, March). Using social stories to assess emotional inferencing of people with traumatic brain injury. Paper presented at the International Brain Injury Association's 10th World Congress on Brain Injury. San Francisco, CA.
19. **Neumann, D.,** Wang, W., McDonald, B., Keiski, M., West, J., Smith, D., and Saykin, A. (paper presentation, March 2014). Neurobiological mechanisms associated with facial affect recognition deficits after traumatic brain injury. 10th World Congress on Brain Injury, San Francisco, USA.
20. **Neumann, D.,** Krawczyk, D., Cook, L., Bell, K., and Chapman, S. (2015). Advancing technologies for training emotion perception: An evolution towards virtual platforms. Symposium:The Assessment and Treatment of Real-life Cognitive and Socio-emotional Functioning: Past, Present, Future. Symposium at the 92nd ACRM Annual Conference, Progress in Rehabilitation Research, 27-30th, 2015 October, Dallas, Texas.
21. **Neumann, D.,** Malec, J., and Hammond, F. (oral presentation 2015). How people with and without brain injury judge others’ behaviors: emotion accepted dysregulation and treatment implications. Oral presentation at the 92nd ACRM Annual Conference, Progress in Rehabilitation Research, 27-30th, October, 2015 Dallas, Texas.
22. Zupan, B., **Neumann, D.,** Babbage, D., and Willer. B. (oral presentation 2015). Gender differences in Affect Recognition and Emotional Inferencing Following Traumatic Brain Injury. Oral presentation at the 92nd ACRM Annual Conference, Progress in Rehabilitation Research, 27-30th, October, 2015 Dallas, Texas.
23. Zupan, B., **Neumann, D.,** Babbage, D., and Willer. B. (symposium) Innovations in Social Cognition; Session Topic: Exploring gender differences in treatment outcomes for facial affect recognition and emotional inferencing following TBI. Symposium topic at the International Brain Injury Association’s 11th World Congress on Brain Injury, The Hague, Netherlands, March 2-5, 2016.
24. Parrot, D. Backhaus, S., **Neumann, D.**, Ibarra, S. (2016) Examination of a new couples treatment to enhance relationship satisfaction and communication following a brain injury. 13th Neuropsychological Rehabilitation Special Interest Group of the World Federation on NeuroRehabilitation, Glasgow, Scotland, UK. 11th-12th July 2016.
25. **Neumann, D.,** Backhaus, S., Hammond, F., and Malec, J. (Symposium Nov 2016). Enhancing Emotional Awareness and Communication after Traumatic Brain Injury. Symposium title: Relationship Problems after TBI: Challenges and Treatments. 93rd ACRM Annual Conference, Progress in Rehabilitation Research, October 31-Nov 5, 2016
26. **Neumann D,** Malec JF, Hammond FM. (Oral Presentation) Enhancing emotional insight after traumatic brain injury: A treatment for alexithymia. International Brain Injury Association’s 12th World Congress on Brain Injury in New Orleans, LA, 3/29-4/1/17.
27. **Neumann D,** Malec JF, Hammond FM. The influence of alexithymia, depression and anxiety on aggression after brain injury. International Brain Injury Association’s 12th World Congress on Brain Injury in New Orleans, LA, 3/29-4/1/17.
28. **Neumann D,** Malec JF, Hammond FM. The relationship between anger and negative attribution bias after brain injury. International Brain Injury Association’s 12th World Congress on Brain Injury in New Orleans, LA, 3/29-4/1/17.
29. **\*Neumann, D.,**  Zupan, B., and Eberle, R. (October 2017). What clinicians need to know about Assessment and Treatment of Social Cognition after Brain Injury. 94th ACRM Annual Conference, Progress in Rehabilitation Research, Atlanta, Georgia, October 24- 28, 2017
30. \*Tsaousides, T. and **Neumann, D.** Interventions to Improve Emotion Regulation Following TBI. 94th ACRM Annual Conference, Progress in Rehabilitation Research, Atlanta, Georgia, October 24- 28, 2017.
31. Amorapanth, P., **Neumann, D.,** Ellois, V., and Rath, J.R. The Emotional Measure of Man: Objective Approaches to Assessing Emotional Function in Traumatic Brain Injury. 94th ACRM Annual Conference, Progress in Rehabilitation Research, Atlanta, Georgia, October 24- 28, 2017.
32. **Neumann, D.** and Zupan, B. (March 2018). Emotionally Empathic Responses Improves Emotion

Recognition Accuracy to Film Clips after Brain Injury. North American Brain Injury Society conference on Brain Injury Across the Age Spectrum: Improving Outcomes for Children and Adults, Houston, Texas, March 14-17 2018.

1. **Neumann, D.,** Hammond, F., Sander, A., Perkins, S. (June 2018). Why did you do that?: Understanding Anger and Attributions of Hostile Intent after Brain Injury. 4th Federal Interagency Conference on Traumatic Brain Injury, Washington, DC, June 11-13, 2018.
2. **Neumann, D.** and Zupan, B. (June 2018). The Association of Emotionally Congruent Responses with Emotion Recognition Accuracy after Brain Injury. 4th Federal Interagency Conference on Traumatic Brain Injury, Washington, DC, June 11-13, 2018.
3. **Neumann, D,** Sanders, A, Hammond, FM, Perkins, S.: Social Cognition After Traumatic Brain Injury: Associations with Participation and Life Quality. Symposium. ACRM, Dallas, TX, October 2, 2018.
4. Bateman, A., **Neumann, D.,** de Pereira, A., and Nordvik, J.E., Holistic Neuropsychological Rehabilitation: International Updates, Debates and Resources. Instructional Course. ACRM, Dallas, TX, October 2, 2018.
5. Neumann, D., Witwer, N., Bhamidipall, S., Perkins, S, Sander, A., Hammond., F. Does Social Inference Play a Role in Aggressive Behavior after Brain Injury? International Brain Injury Association 13th World Congress on Brain Injury, Toronto Canada, March 13-16, 2019.
6. **Neumann, D.,** and Zupan, D. Processing Self-emotions after Brain Injury: Women May Have More to Lose than Men. International Brain Injury Association 13th World Congress on Brain Injury, Toronto Canada, March 13-16, 2019.
7. **Neumann, D.** Bailey, R., Bhamidipall, S., Perkins, S, Sander, A., Hammond, F. Relations of Social Inferencing Skills After Brain Injury and Attributions of Intent, Hostility, and Blame. New Orleans, Louisiana. ABI 2020. February 26-29, 2020.
8. **Neumann, D**., Witwer, N., Bhamidipall, S., Perkins, S, Sander, A., Hammond, F. Using the Ambiguous Intentions Hostility Questionnaire to assess negative attributions after brain injury. ASSBI 2020, May 7-9, 2020. Perth, Australia. (CANCELLED DUE TO COVID-19)
9. **Neumann, D.** Bailey, R., Bhamidipall, S., Perkins, S, Sander, A., Hammond, F. Relations of Social Inferencing Skills After Brain Injury and Attributions of Intent, Hostility, and Blame. ASSBI 2020, May 7-9, 2020. Perth, Australia. (CANCELLED DUE TO COVID-19)
10. **Neumann, D**, Mayfield, R., Sander, A, Hammond, F, Bhamidipalli, and S, Jang, JH, (2020) Does Social Inferencing Differ in Men and Women after TBI? ACRM 97th Annual Conference, Atlanta, Georgia (Virtual), October 21-23, 2020.
11. **Neumann, D**, Mayfield, R, Hammond, F, Sander, A, Bogner, J, Finn, J, Bushnik, T.(2020) Examining the Relationship Between Chronic Pain and Alexithymia After Traumatic Brain Injury. ACRM 97th Annual Conference, Atlanta, Georgia (Virtual), October 21-23, 2020.
12. **Neumann, D.,** Negative Attributions and Anger After Brain Injury: Risk Factors, Assessment, and Implications for Treatment. Brain Injury Alliance of New Jersey Annual Conference, Virtual Meeting, May 11, 2021.
13. **Neumann, D**. Anger and Negative Attributions after Brain Injury: Risk Factors, Assessment, and Treatment. Brain Injury Association of Michigan, September 9-10, 2021.
14. **Neumann, D.,** Backhaus, S., Helton, B., Bhamidipalli, S., Jang, J., Winegardner, J., Laffoon, A., and Hammond, F. Intervention to Change Attributions that are Negative: Can it Reduce Anger after Brain Injury? ACRM 98th Annual Conference, Dallas, Texas (Virtual), September 26-29, 2021.
15. **Neumann, D.**, Juengst, S.B., Bombardier, C.H., Finn, J.A., Miles, S., Zhang, Y., Kennedy, R.E., Rabinowitz, A.R., Thomas, A., Dreer, L.E. Trajectories and Predictors of Anxiety Over a Ten-year Duration after Traumatic Brain Injury: A TBIMS Study. ACRM 98th Annual Conference, Dallas, Texas (Virtual), September 26-29, 2021.
16. Klyce, D.W., Sander, A. M., Juengst, J. B., **Neumann, D.,** Merced, K., and Marwitz, J. Caregiver Adjustment to Traumatic Brain Injury: Findings from Recent TBI Model Systems Collaborative Projects. Symposium at ACRM 2022 Annual Conference. Chicago, IL. November 8, 2023**.**
17. **Neumann, D.,** Hammond, F., Sevigny, M., Finn, J., Klyce, D., Sander, A., Bushnik, T., Ketchum, J., Chung, J., and Bogner, J. Advancing Knowledge on Alexithymia in Civilians and Veterans with Traumatic Brain Injury: A Traumatic Brain Injury Model Systems Study*.*14thWorld Congress on Brain Injury, Dublin, Ireland, March 31, 2023.

**Poster Presentations**

1. **Radice. D.** and Hanson, S. (1998, September). A universal similarity function?: magnitude estimates for face-like exemplars. Poster presented at Rutgers Graduate Student Minisymposium.
2. **Radice-Neumann, D.** and Youakim, M. (November, 2003). Attentional modulation of visual evoked responses in cortex. Poster presented at University at Buffalo, Perry Lecture.
3. Yim, J., Babbage, D.R., Zupan, B., **Neumann, D**., & Willer, B. (2009, July). An overview of two treatments for affect recognition difficulties after traumatic brain injury. Poster presented at the AFRM/NIRR/NZRA conference, incorporating the 17th Annual Scientific Meeting of the AFRM, Queenstown, New Zealand.
4. Babbage, D.R., Yim, J., **Neumann, D**., Zupan, B., & Willer, B. (2009, July). Magnitude of affect recognition difficulties after traumatic brain injury. Poster presented at the AFRM/NIRR/NZRA conference, incorporating the 17th Annual Scientific Meeting of the AFRM, Queenstown, New Zealand.
5. **Neumann**, **D.** Hammond, F., Norton, J., Blumenthal, T. (2010, March). Modulated Startle Response: An Objective Measure of Emotional Responses After Traumatic Brain Injury. Poster presentation at 8th World Congress on Brain Injury, Washington, D.C.
6. Yim, J., Babbage, D.R., **Neumann, D.,** Zupan, B., & Willer, B. (2011, July). The relationship between cognitive functioning and facial affect recognition difficulties after traumatic brain injury.Poster presentation at the 8th Conference of the Neuropsychological Rehabilitation Special Interest Group of the World Federation of NeuroRehabilitation, Rotorua, New Zealand.
7. Schmid AA, Van Puymbroeck M, Altenburger P, Dierks T, Miller K, Schalk N, Damush T, Crabtree J, **Neumann D**, Williams L. (2011, October) Eight-Week Yoga Intervention Improves Quality of Life, Activity, and Social Participation after Stroke. American Congress of Rehabilitation Medicine, Atlanta, GA, October, 2011.
8. **Neumann, D.,** Zupan, B, Bartel, S., and Hammond, F. (2011, October). Using Film Clips to Assess Affect Recognition and Empathy in People with and Without TBI. American Congress of Rehabilitation Medicine, Atlanta, GA, October, 2011.
9. Zupan, B., and **Neumann, D.** (2011, November). Using emotional film clips to assess affect recognition and emotional responses in persons with and without TBI. American Speech-Language and Hearing Association, San Diego, CA, November, 2011.
10. Babbage, D., Zupan, B., **Neumann, D**., and Willer, B. (2012, July). Rasch analysis of the DANVA2 Adult Faces and Voices in people with traumatic brain injury. 9th Conference of the Neuropsychological Rehabilitation Special Interest Group of the World Federation for NeuroRehabilitation, Bergen, Norway, 2–3 July 2012.
11. Kean, J., **Neumann, D**. Malec, J., and Hammond, F. (Poster 2013, July). Irritability and aggression following brain injury: Toward a development of a cogent conceptual framework. Conference of the 10th Neuropsychological Rehabilitation Special Interest Group of the World Federation of NeuroRehabilitation (WFNR)
12. Zupan, B., **Neumann, D.,** Babbage, D., & Willer, B. (November, 2013) Inferring Emotion in Social Stories by People with Traumatic Brain Injury.90th ACRM Annual Conference, Progress in Rehabilitation Research, 12-16, November 2013, Orlando, FL. (Won ACRM Brain Injury Special Interest Group Early Career Poster Award).
13. Wang, Y., Krueger, G., West, J.D., **Neumann, D.,** McDonald B.C., Keiski, M.A., Smith, D.J., Saykin, A.J. (2014). Automatic segmentation to assess atrophy in chronic moderate and severe traumatic brain injury. Poster presented at Organization of Human Brain Mapping in June 2014 in Hamburg, Germany.
14. **Neumann, D.,** Zupan, B., Babbage, D., & Willer, B. (October, 2014) Socio-emotional Factors Associated with Relationship Stress after TBI.91st ACRM Annual Conference, Progress in Rehabilitation Research, 12-16, October 2014, Toronto, Ontario.
15. Kline, J. A. and **Neumann, D**. (June 2015) Relationship of patient affect to clinician-derived pretest probability assessment for pulmonary embolism. 2015 International Society on Thrombosis June 12-25, Toronto, Ontario.
16. **Neumann, D.,** Feldman, P., Malec, J., Hammond, F., and Trebley, J. (Aug 2015). Emotion dysregulation after traumatic brain injury: understanding the role of alexithymia and the potential of a novel training program. Military Health System Research Symposium (MHRS) August 17-20, 2015; Fort Lauderdale, Florida.
17. **Neumann, D.** Malec, J., and Hammond, F. (Aug 2015). Bias to perceive benign situations as intentionally hostile may contribute to anger disorder after traumatic brain injury: implications for proactive assessment and training in civilian and military populations. Military Health System Research Symposium (MHRS) August 17-20, 2015; Fort Lauderdale, Florida.
18. **Neumann, D.,** Feldman, P., Malec, J., Hammond, F., and Trebley, J. (Aug 2015). Emotion dysregulation after traumatic brain injury: understanding the role of alexithymia and the potential of a novel training program. VA Traumatic Brain Injury State-of-the-Art Research Summit August 24-25, 2015; Washington D.C.
19. **Neumann, D.** Malec, J., and Hammond, F. (Aug 2015). Bias to perceive benign situations as intentionally hostile may contribute to anger disorder after traumatic brain injury: implications for proactive assessment and training in civilian and military populations. VA Traumatic Brain Injury State-of-the-Art Research Summit August 24-25, 2015; Washington D.C.
20. **Neumann, D.** Malec, J., and Hammond, F. (May 2016). The influence of alexithymia, depression and anxiety on aggression after brain injury**.** 9th World Congress for Neurorehabilitation (WCNR 2016) Philadelphia, USA- May 10-13,2016.
21. **Neumann, D.** Malec, J., and Hammond, F. (May 2016). Enhancing emotional insight after traumatic brain injury: a treatment for alexithymia. 9th World Congress for Neurorehabilitation (WCNR 2016) Philadelphia, USA- May 10-13,2016.
22. **Neumann, D.** Malec, J., and Hammond, F. (May 2016). The relationship between anger and negative attribution bias after brain injury. 9th World Congress for Neurorehabilitation (WCNR 2016) Philadelphia, USA- May 10-13,2016.
23. **Neumann, D.,** Malec, J., and Hammond, F., (Nov 2016). The Influence of Personal Emotional Awareness on Aggression after Brain Injury.93rd ACRM Annual Conference, Progress in Rehabilitation Research, October 31-Nov 5, 2016.
24. Kenrick, A. **Conner, J.M.,** and **Neumann, D**. Investigating impaired facial affect recognition in persons with traumatic brain injury through eye-tracking and gaze analysis. International Brain Injury Association’s 12th World Congress on Brain Injury in New Orleans, LA, 3/29-4/1/17.
25. Wolter, E., **Conner, J.M.,** and **Neumann, D.** Examining Emotion Interpretation Accuracy after a Traumatic Brain Injury by Using Eye Tracking, Life Health Science Intern Poster Session, Indiana University, Indianapolis, IN, 4/28/17
26. Hummer, T., Wood, Z. M., Miller, K., Conner, M., Eaton, M. S., Neumann, D. M. (2018) Virtual Reality as a Tool to Address Childhood Behavior Problems. Poster presented at the 2018 Digital Media and Developing Minds Conference, Cold Spring Harbor Laboratory, New York City, NY.
27. Kenrick, A. **Conner, J.M.,** and **Neumann, D**. Investigating impaired facial affect recognition in persons with traumatic brain injury through eye-tracking and gaze analysis. 94th ACRM Annual Conference, Progress in Rehabilitation Research, Atlanta, Georgia, October 24- 28, 2017.
28. Strong, E., **Neumann, D.** and Swan, L. Clinical Implementation of a Facial Affect Recognition Intervention During Outpatient Therapy after Brain Injury. Poster. ACRM, Dallas, TX, October 2, 2018.
29. Witwer, N. Dyer, D., Perkins, S, Hammond, F., Sander, A., Bhamidipalli, S., **Neumann, D**. Assessing negative attributions and anger after brain injury: a comparison of measures. IU School of Medicine Student Research Symposium. April 13, 2019.
30. **Neumann, D.** Helton, B., Cochran, T., and Carbone, A. Help Me Cry Again: A Post-stroke Case Study. Poster. ACRM 96th Annual Conference, Chicago, IL, November 7, 2019.
31. Witwer, N. Dyer, D., Perkins, S, Hammond, F., Sander, A., Bhamidipalli, S., **Neumann, D**. Assessing negative attributions and anger after brain injury: a comparison of measures. Poster. ACRM 96th Annual Conference, Chicago, IL, November 7, 2019. BI-ISIG DAVID STRAUSS POSTER AWARD
32. Miles SR, Brenner LA, **Neumann D,** et al. Posttraumatic stress disorder symptoms contribute to staff perceived irritability, anger, and aggression after TBI in a longitudinal veteran cohort: a VA TBI Model Systems study. Poster at ACRM 96th Annual Conference, Chicago, IL, November 7, 2019.
33. Gavin E, Miles S, Silva M, Corrigan, J., **Neumann, D.,** Eapen, B., Dillahunt-Aspillaga, C., Nakase-Richardson, R. Arrests Rates in Veterans and Military Personnel After TBI: A VA TBI Model Systems Study. Poster at ACRM 96th Annual Conference, Chicago, IL, November 7, 2019.
34. Hummer T, Wood Z, Miller K, Spring J, **Neumann D.** (2020). Feasibility of Virtual Reality to Improve Social Perspective Taking in Youth With Disruptive Behavior Disorders. Poster presentation at the 75th Annual Convention of the Society of Biological Psychiatry. New York, New York.
35. **Neumann, D,** Sander, A, Bhamidipalli, S, Jang, JH, Hammond, F. (2020) Sex Differences in Aggression, Anxiety, and Depression after TBI. Poster at ACRM 97th Annual Conference, Atlanta, Georgia (Virtual), October 21-23, 2020.
36. Liou-Johnson, V., Adamson, M., Niemeier, J., Silva, M., Sevigny, M., Dirlikov, B., **Neumann, D**., Harris, O., and Chung, J. Social Determinants of Health May Contribute to Poorer

Outcomes for Women Veterans with TBI. Society of Military Psychology (Division 19) programming for the 2021 APA Annual Meeting. August 12-15, 2021.

1. Naz, S.I., **Neumann, D.,** Mueid, R., Christopher, L., Using Machine Learning Classification to Predict Social Inferencing Performance from Eyetracking Data in Participants with and without Brain Injury. Poster at ACRM 98th Annual Conference, Dallas, Texas (Virtual), September 26th-29, 2021.
2. Brent, J., **Neumann, D.,** Hammond, F., Exploring Changes in Social Inferencing and Negative Attributions Following an Intervention for Individuals with Brain Injury Poster at ACRM 98th Annual Conference, Dallas, Texas (Virtual), September 26th-29, 2021.
3. Brickman, J., McCarthy, R., Rodriguez, G., Wood, Z, Miller, K., **Neumann, D.,** Kronenberger, W., Hummer, T. Relationship between judgment of social interactions in virtual reality and neural responses to self and other pain images in children with disruptive behavior disorders. Oral Poster (virtual) Presentation at Society for Neuroscience, 50th Annual Meeting. November 8-11, 2021
4. Hummer, T., Wood, Z., McCarthy, R., Brickman, J., Miller, K., Rodriguez, G., Hord, M., Perkins, S., Ruggles, S., Parekar, R., Gill, T., Kronenberger, W., Neumann, D. (2022). PerspectiVR: Testing a Virtual Reality Intervention to Improve Social Perspective Taking for Disruptive Behavior Disorders. Poster presentation at the 77th annual meeting of the Society of Biological Psychiatry, New Orleans, LA.
5. **Neumann, D.,** Hill, R., Armstrong, A., Hammond, F.M. Teletherapeutic Intervention to Change Affect Recognition and Empathy after Brain Injury: A Feasibility Study. Poster presentation at ACRM 2022 Annual Conference. Chicago, IL. November 10, 2023.

**Peer-reviewed Publications**

1. **Radice-Neumann, D**., Zupan, B., Babbage, D., and Willer, B. (2007). Overview of impaired facial affect recognition in persons with traumatic brain injury. *Brain Injury,* 21(8), 807-816.
2. Zupan, B., **Neumann, D**., Babbage, D., and Willer, B. (2009). The Importance of Vocal Affect to Bimodal Processing of Emotion: Implications for Individuals with Traumatic Brain Injury. Journal of Communication Disorders, *Journal of Communicative Disorders*, Jan-Feb;42(1):1-17.
3. **Radice-Neumann, D.,** Zupan, B., Tomita, M., and Willer, B. (2009) Training Emotional Processing in Persons with Brain Injury. *Journal of Head Trauma Rehabilitation*, 24 (5), 313-323.
4. Graham, J., **Radice-Neumann, D.,** Reistetter, T., Hammond, F., Disjkers, M., Granger, C. (2010). Influence of Sex and Age on Inpatient Rehabilitation Outcomes Among Older Adults with Traumatic Brain Injury, *Archives of Physical Medicine and Rehabilitation*, 91 (Jan), 43-50.
5. Babbage, D.R., Yim, J., Zupan, B., **Neumann, D**., Tomita, M.R., & Willer, B. (2011). Meta-analysis of facial affect recognition difficulties after traumatic brain injury. *Neuropsychology,* 25(3), 277-28.
6. **Neumann, D**., Hammond, F., Norton, J., and Blumenthal, T. (2011). Using startle to objectively measure anger and other emotional responses after traumatic brain injury: A pilot study. *Journal of Head Trauma Rehabilitation*, 26(5), 375-383.
7. **Neumann, D**., Zupan, B., Babbage, D., Radnovich, A., Tomita, M., Hammond, F., and Willer, B. (2013). Affect Recognition, empathy, and dysosmia after traumatic brain injury. *Archives of Physical Medicine and Rehabilitation.* 93 (Aug 2013), 1414-1419.
8. Yim, J., Babbage, D.R., Zupan, B., **Neumann, D.,** & Willer, B. (2013) The relationship between facial affect recognition and cognitive functioning after traumatic brain injury. *Brain Injury.* 2013; 27(10):1155-61 DOI: 10.3109/02699052.2013.804203
9. **Neumann, D**., Keiski, M., McDonald, B.C., and Wang, Y. (2014) Neuroimaging and facial affect processing: Implications for traumatic brain injury. *Brain Imaging and Behavior.* Volume 8, Issue 3, Page 460-473.
10. Zupan, B. and **Neumann, D.** (2014), Affect Recognition in Traumatic Brain injury: Responses to Unimodal and Multimodal Media. *Journal of Head Trauma Rehabilitation,* July-Aug*:* 29(4):E1-E12
11. **Neumann, D**., Zupan, B., Malec, J., and Hammond, F. (2014) Relationships between alexithymia, affect recognition, and empathy after traumatic brain injury. *Journal of Head Trauma Rehabilitation.*29 (1), E18-E27.
12. Zupan, B., Babbage, D., **Neumann, D.,** and Willer, B. (2014). Recognition of facial and vocal affect following traumatic brain injury. *Brain Injury*. 2014, Vol. 28, No. 8 , Pages 1087-1095 (doi:10.3109/02699052.2014.90156)
13. Kline, J.A, **Neumann, D.**, Haug, M. Kammer, D.J., and Krabill, V.A. (July 2014). Decreased facial expression variability in patients with serious cardiopulmonary disease in the emergency care setting. *Emergency Medicine Journal*. 32(1) pp 3-8. 10.1136/emermed-2014-203602
14. **Neumann, D**., Babbage, D., Zupan, B. and Willer, B. (2015). A Randomized controlled trial of emotion recognition training after traumatic brain injury. *Journal of Head Trauma Rehabilitation.* 30 (3): E12-E23 May/ June 2015doi:10.3109/02699052.2014.901560
15. Zupan, B., **Neumann, D**., Babbage, D., and Willer, B. (2015). Exploration of a new tool for assessing emotional inferencing after traumatic brain injury. *Brain Injury.* 29 (7-8), pages 877-887.DOI: 10.3109/02699052.2015.1011233
16. **Neumann, D.**, Malec, J.F., and Hammond, F. (2015). The association of negative attributions with irritation and anger after brain injury. *Rehabilitation Psychology.* 2015 May; 60(2): 155-161. doi: 10.1037/rep0000036.
17. Zupan, B. and **Neumann, D.** (2016) Exploring the use of isolated expressions and film clips to evaluate emotion recognition by people with traumatic brain injury. *Journal of Visual Experiments*.  (111), e53774, doi:10.3791/53774
18. **Neumann, D.,** McDonald, B.C., West, J., Keiski, M.A., Wang, Y. (2016). Neurobiological mechanisms associated with facial affect recognition deficits after traumatic brain injury. *Brain Imaging and Behavior.* 10(2), 569-580DOI: 10.1007/s11682-015-9415-3
19. Backhaus, S., **Neumann, D.,** Parrot, D., Brownson, C., Hammond, F.M., and Malec, J.F. (2016). Examination of an Intervention to Enhance Relationship Satisfaction after Brain Injury: A Feasibility Study. *Brain Injury. May 16;* **DOI:** 10.3109/02699052.2016.1147601
20. Winegardner, J., Keohane, C., Prince, L., and **Neumann, D.** (2016). Perspective training to treat anger problems after brain injury: Two case studies. *NeuroRehabilitation. 39(1)* July 2016 pp 153-162. DOI: 10.3233/NRE-161347
21. **Neumann, D.,** Malec JF, Hammond FM. Negative Attribution Bias and Anger After Traumatic Brain Injury. J Head Trauma Rehabil. 2017 May/Jun;32(3):197-204. doi: 10.1097/HTR.0000000000000259. PMID: 28476058.
22. Kline, J.A., **Neumann, D.,** Raad, S., Schriger, D., Hall, C., Capito, J., and Kammer, D. (2017). Impact of Patient Affect on Physician Estimate of Probability of Serious Illness and Test Ordering. *Academic Medicine.* Nov; 92(11): 1607–1616 doi: [10.1097/ACM.0000000000001674](https://dx.doi.org/10.1097%2FACM.0000000000001674)
23. **Neumann, D**., Malec, J. F., & Hammond, F. M. (2017). The relations of self-reported aggression to alexithymia, depression, and anxiety after traumatic brain injury. *Journal of head trauma rehabilitation*, *32*(3), 205-213.
24. **Neumann, D.,** Malec, J.F., and Hammond, F.M. Reductions in alexithymia and emotion dysregulation after training emotional self-awareness following traumatic brain injury: a pilot study. *Journal of Head Trauma Rehabilitation*. 2017; 32 (5); 286-295. 10.1097/HTR.0000000000000277
25. Kline, J.A., **Neumann, D**., Hall, C., Capito, J. (2017), Role of physician perception of patient smile on pretest probability assessment for acute pulmonary embolism. *Emergency Medicine Journal.* 34(2): 82-88*.* doi: 10.1136/emermed-2016-205874.
26. Zupan, B., Babbage, D.R., **Neumann, D.,** and Willer, B. (2017). Sex differences in emotion recognition and emotional inferencing following traumatic brain injury. *Brain Impairment.* 18 (1) March pp 36-48. DOI: <https://doi.org/10.1017/BrImp.2016.22>
27. Malec JF, Stump TE, Monahan PO, Kean J, **Neumann D**, Hammond FM.  (2017) Rasch analysis, dimensionality, and scoring of the Neuropsychiatric Inventory (NPI) Irritability and Aggression subscales in individuals with traumatic brain injury. Arch Phys Med Rehabil, Epub ahead of print, Sept 13, 2017. DOI: <http://dx.doi.org/10.1016/j.apmr.2017.07.020>.
28. Zupan, B., **Neumann, D.,** Babbage, D., Willer, B. (2018) Sex-based differences in Affective and Cognitive Empathy Following Severe Traumatic Brain Injury, *Neuropsychology*, 32(5) July 2018, 554-563.
29. Babbage, D. R., Zupan, B., **Neumann, D.,** & Willer, B. (2018) Sex differences in response to emotion recognition training after traumatic brain injury. *Brain Injury, 32*(12), 1492-1499. doi:10.1080/02699052.2018.1497811
30. **Neumann,** D. and Zupan, B. (2019) The Association of Emotionally Congruent Responses to Film Clips with Emotion Recognition Accuracy and Empathy following Brain Injury, *Archives of Physical Medicine and Rehabilitation*. March 2019;100 (3):458-63.
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2. **Neumann, D.**, Juengst, S.B., Bombardier, C.H., Finn, J.A., Miles, S., Zhang, Y., Kennedy, R.E., Rabinowitz, A.R., Thomas, A., Dreer, L.E. Anxiety Trajectories the First 10 Years Following a Traumatic Brain Injury (TBI): A TBI Model Systems Study. Arch Phys Med Rehabil*.*2022.Vol 103 (11) pp 2105-2113 <https://doi.org/10.1016/j.apmr.2022.07.002>
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4. Hummer, T., Wood, Z., Miller, McCarthy, R., Brickman, J., and **Neumann, D.** Assessment of Boys’ Responses to Interpersonal Conflict in Virtual Reality. *Games for Health Journal*. 2023. Vol 12(1), pp53-62
5. Sander, A., Pappadis, M., Bushnik, T., Chiaravalloti, N.D., Driver, S., Hanks, R., Lercher, K., **Neumann, D.,** Rabinowitz, A., Seel, R.T., Weber, E., Ralston, R., Corrigan, J., Kroenke, K., and Hammond, F.M. An Umbrella Review of Self-Management Interventions For Health Conditions With Symptom Overlap with Traumatic Brain Injury. *Journal of Head Trauma Rehabilitation*. In press
6. Sander, A., Williams, M., Loyo, K., Leon-Novelo, L., Ngan, E., **Neumann, D.,** Agtarap, S., Martin, A., Hanks, R., Hammond, F.M, Hoffman, J., Christensen, K. Disparities in Chronic Pain Experience and Treatment History Among Persons With Traumatic Brain Injury: A Traumatic Brain Injury Model Systems Study. *Journal of Head Trauma Rehabilitation*. March/ April 2023 Vol 38 (2), pp 135-136.
7. Sander AM, Christensen K, Loyo K, Williams M, Leon-Novelo L, Ngan E, Agtarap S, Martin AM, **Neumann D,** Hammond FM, Hanks R, Hoffman J. Coping with chronic pain after traumatic brain injury: Role of race/ethnicity and impact on participation outcomes in a Traumatic Brain Injury Model Systems sample. *Archives of Physical Medicine and Rehabilitation* (accepted)

**Manuscripts Under Review**

1. Naz, S.I., Christopher, L., **Neumann, D**. Machine Learning Classification of Theory of Mind Performance after Traumatic Brain Injury for Informing Rehabilitation Needs and Progress.

*Transactions on Applied Perception.* (Under Review, May 2021).

1. Marwitz, J.H., Perera, R., Klyce, D.W., Walker, K., Bergquist, T.F., **Neumann, D.,** Agtarap, S.D., Legenfelder, J., Hammond, F.M., and Dreer, L.E. Caregiver Resilience Following Traumatic Brain Injury: Findings at Six Months Post-Injury. *Rehabilitation Psychology*. (Under Revision).
2. Naz, S.I., Mueid, R., Christopher, L., and Neumann, D. Eye Tracking in Conjunction with Facial Landmarks as a Diagnostic Marker of Theory of Mind Performance after Traumatic Brain Injury.  *IEEE Access.* (Under Review January 2022).

**Published Abstracts**

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2. Yim, J., Babbage, D.R., **Neumann, D.,** Zupan, B., & Willer, B. (2011). The relationship between cognitive functioning and facial affect recognition difficulties after traumatic brain injury.*Brain Impairment, 12*(Suppl. 1)*,*81.
3. Willer, B.; **Neumann, D**.; Radnovich, A.; Babbage, D.; Zupan, B. and Tomita, M (2011) Empathy, Affect Recognition and Dysosmia in Persons with Traumatic Brain Injury. Journal of Head trauma Rehabilitation Volume 26 (Number 5) p 413.
4. Schmid, A.A., Van Puymbroeck, M., Altenburger, P., Dierks, T., Miller, K., Schalk, N., Damush, T., Crabtree, J., **Neumann, D**.,  & Williams, L. (2011). Eight-week yoga intervention improves quality of life, activity, and social participation after stroke. *Archives of Physical Medicine and Rehabilitation, 92*(10), p. 1713-1714.
5. **Neumann, D.,** Zupan, B., Bartel, S., and Hammond, F. (2011). Using film clips to assess affect recognition and empathy in people with and without TBI. *Archives of Physical Medicine and Rehabilitation, 92*(10), p. 1721.
6. Willer, B., **Neumann, D.,** Radnovich, A., Zupan, B., Babbage, D., & Tomita, M. (2012, April). Loss of sense of smell from traumatic brain injury and perceived changes in empathy and interpersonal support. In *BRAIN INJURY* (Vol. 26, No. 4-5, pp. 440-441). TELEPHONE HOUSE, 69-77 PAUL STREET, LONDON EC2A 4LQ, ENGLAND: INFORMA HEALTHCARE.
7. Zupan, B., & **Neumann, D**. Using emotional and neutral film clips to investigate impaired affect recognition and empathic responses after TBI. In *Brain Injury, 2012* (Vol. 26, pp. 363-364, Vol. 4-5): INFORMA HEALTHCARE TELEPHONE HOUSE, 69-77 PAUL STREET, LONDON EC2A 4LQ, ENGLAND
8. **Neumann, D.,** Zupan, B., & Hammond, F. Do Affect Recognition and Alexithymia Contribute to Empathy After Traumatic Brain Injury? In *Brain Injury, 2012* (Vol. 26, pp. 366-367, Vol. 4-5): INFORMA HEALTHCARE TELEPHONE HOUSE, 69-77 PAUL STREET, LONDON EC2A 4LQ, ENGLAND
9. Bartel, S., **Neumann, D.,** Zupan, B., Babbage, D., & Willer, B. Factors Related to Community Integration and Relationship Quality after Traumatic Brain Injury. In *Journal of Head Trauma Rehabilitation, 2012* (Vol. 27, pp. E6-E7, Vol. 5): LIPPINCOTT WILLIAMS & WILKINS 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA
10. **Neumann, D.** (2013). Article 16 Alexithymia After Brain Injury: What is it and Why it Deserves More Attention. *Archives of Physical Medicine and Rehabilitation,* 94 (10), pe7.
11. Zupan, B., **Neumann, D.,** Babbage, D., & Willer, B. Using Social Stories to Assess Emotional Inferencing of People with Traumatic Brain Injury (TBI). In *Brain Injury, 2014* (Vol. 28, pp. 594-594, Vol. 5-6).
12. Zupan, B., **Neumann, D.,** Babbage, D. R., & Willer, B. (2013). Poster 80 Inferring Emotion in Social Stories by People with Traumatic Brain Injury. *Archives of physical medicine and rehabilitation, 10*(94), e39.
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14. Kline, J., & **Neumann, D.** Relationship of patient affect to clinician-derived pretest probability assessment for pulmonary embolism. *Journal of Thrombosis and Haemostasis, 2015* (Vol. 13, pp. 978-978):
15. **Neumann, D.,** Malec, J. F., & Hammond, F. (2015). How People with and without Brain Injury Judge Others’ Behaviors: Emotion Dysregulation and Treatment Implications. *Archives of Physical Medicine and Rehabilitation, 96*(10), e2.
16. Raad, S., Capito, J., Hall, C., Neumann, D. Influence of Patient Affect on Physician Recogniton of Serious Illness and Need for Computerized Tomographic Pulmonary Angiography Among Patients with Suspected Pulmonary Embolism. CHEST Journal. October 2016, 150 (4), Supplement Page 1188A.
17. **Neumann, D.,** Hammond, Malec, J. The Influence of Personal Emotional Awareness on Aggression after Brain Injury. *Archives of Physical Medicine and Rehabilitation, October 2016, 97*(10), e23.
18. Kenrick, A., **Neumann, D.,** and Conner, M. Investigating Facial Affect Recognition in Persons with Traumatic Brain Injury via Eye-tracking and Gaze Analysis. *Archives of Physical Medicine and Rehabilitation,* December 2017*,* 96(10), e174-e175.<https://doi.org/10.1016/j.apmr.2017.09.083>
19. Zupan, B. and Neumann, D., The Association of Emotionally Congruent Responses with Emotion Recognition Accuracy after Brain Injury. *Archives of Physical Medicine and Rehabilitation,* November 2018, 99 (11), p e149.
20. Strong, E., Swan, L., and **Neumann, D.** Clinical Implementation of a Facial Affect Recognition Intervention During Outpatient Therapy after Brain Injury. *Archives of Physical Medicine and Rehabilitation.* December 2018, 99 (12), pp e194-e195. DOI: <https://doi.org/10.1016/j.apmr.2018.09.018>
21. Witwer N, Dyar D, Perkins S, Hammond F, Sander A, **Neumann D.** Assessing Negative Attributions and Anger After Brain Injury: A Comparison of Measures. *Archives of Physical Medicine and Rehabilitation.* 2019;100(10):e44-e45.
22. **Neumann D,** Helton B, Cochran T, Carbone A. Help Me Cry Again: A Post-stroke Case Study. *Archives of Physical Medicine and Rehabilitation.* 2019;100(12):e181.
23. Miles SR, Brenner LA, **Neumann D,** et al. Posttraumatic stress disorder symptoms contribute to staff perceived irritability, anger, and aggression after TBI in a longitudinal veteran cohort: a VA TBI Model Systems study. *Archives of physical medicine and rehabilitation.* 2019.
24. Gavin E, Miles S, Silva M, Corrigan, J., **Neumann, D.,** Eapen, B., Dillahunt-Aspillaga, C., Nakase-Richardson, R. Arrests Rates in Veterans and Military Personnel After TBI: A VA TBI Model Systems Study. *Archives of Physical Medicine and Rehabilitation.* 2019;100(10):e44.
25. Hummer T, Wood Z, Miller K, Spring J, **Neumann D.** Feasibility of Virtual Reality to Improve Social Perspective Taking in Youth With Disruptive Behavior Disorders. *Biological Psychiatry.* 2020;87(9):S394.
26. **Neumann, D.,** Mayfield, R., Hammond, F., Sander, A., Bogner, J., Finn, J., and Bushnik., T. Examining the Relationship between Chronic Pain and Alexithymia after traumatic brain injury. Arch Phys Med Rehabil*.* Vol 101, Isue 11, E4. 11/01.2020 DOI: <https://doi.org/10.1016/j.apmr.2020.09.007>
27. **Neumann, D.,** Mayfield, R., Sander, A., Hammond, F., Bhamidipalli, S., and Jang, J.H. Does Social Inferencing Differ in Men and Women after TBI?. Arch Phys Med Rehabil*.* Vol 101, Isue 11, E14. 11/01.2020 DOI: <https://doi.org/10.1016/j.apmr.2020.09.007>
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29. Naz, S.I., **Neumann, D.,** Mueid, R., Christopher, L., Using Machine Learning Classification to Predict Social Inferencing Performance from Eyetracking Data in Participants with and without Brain Injury. Arch Phys Med Rehabil*.* Vol 102, Isue 10, E27. 10/01/21 DOI: <https://doi.org/10.1016/j.apmr.2021.07.536>
30. **Neumann, D.**, Juengst, S.B., Bombardier, C.H., Finn, J.A., Miles, S., Zhang, Y., Kennedy, R.E., Rabinowitz, A.R., Thomas, A., Dreer, L.E. Trajectories and Predictors of Anxiety Over a Ten-year Duration after Traumatic BrainInjury: A TBIMS Study. Arch Phys Med Rehabil*.* Vol 102, Issue 10, E17. 10/01/21 DOI: <https://doi.org/10.1016/j.apmr.2021.07.440>
31. Brent, J, **Neumann, D.,** and Hammond, F.M. Exploring Changes in Social Inferencing and Negative Attributions Following an Intervention for Individuals with Brain Injury. Arch Phys Med Rehabil. Vol 103, Issue 3, E16. 03/2022. DOI: <https://doi.org/10.1016/j.apmr.2022.01.043>

**Books and Book Chapters**

1. **Neumann, D**. and Garay, E. Reviewing the Literature (Chapter). Hammond, F., Malec, J., Nick, T., & Buschbacher, R. (Eds.). (2014). *Handbook for Clinical Research: Design, Statistics, and Implementation*. Demos Medical Publishing.
2. Neumann, D., Zupan, B., and Eberle, R. “Social Cognition.” *Textbook of Traumatic Brain Injury*, 3rd Edition, Ed. Jonathon M. Silver, Thomas W. McAllister, and David B. Arciniegas. Washington, D.C.: American Psychiatric Association Publishing, 2019. 281-297.

**Non-Peer Reviewed Publications (Other)**

1. **Neumann, D.** (2009). Emotional Mis-communication: The “Heart” of Relationship Challenges after TBI. Brain Injury Association of North Carolina Newsletter, December Issue.
2. **Neumann D.**, Lequerica A. [Cognitive problems after traumatic brain injury.](http://www.ncbi.nlm.nih.gov/pubmed/25532424) Arch Phys Med Rehabil. 2015 Jan;96(1):179-80. doi: 10.1016/j.apmr.2013.06.003. PubMed PMID: 25532424.
3. **Neumann, D**. (June 2013). Talking with your spouse or Charlie Brown’s teacher? Miscommunication in couples after brain injury. *Brain Injury Journey: Hope, Help, Healing.* Issue #2.
4. **Neumann, D.** (September 2017), Treatments for Emotional Issues After Traumatic Brain Injury, Preface to Special Issue in the Journal of Head Trauma Rehabilitation (and Issue Guest Editor). [September/October 2017 - Volume 32 - Issue 5 - p 283–285](http://journals.lww.com/headtraumarehab/toc/2017/09000)

doi: 10.1097/HTR.0000000000000337

1. **Neumann, D**. You did that on purpose! Misinterpretations after Brain Injury. Blog on Lash and Associates Publishing website: <https://www.lapublishing.com/blog/2018/misinterpretations-anger-brain-injury/>
2. **Neumann, D.** Emotional Mis-communication Changes Relationships after Brain Injury. Blog on Lash and Associates Publishing website:

<https://www.lapublishing.com/blog/2010/brain-injury-emotions-relationships/>

1. Hawley, L, Newman, **Neumann, D**., and O’Niel-Pirozzi. [Social Skills after Traumatic Brain Injury](https://msktc.org/tbi/factsheets/social-skills-after-traumatic-brain-injury). MSKTC TBI Factsheet.
2. Greenwald, B., **Neumann, D.,** Dubiel, R. [Loss of Smell or Taste after Traumatic Brain Injury](https://msktc.org/tbi/factsheets/loss-smell-or-taste-after-traumatic-brain-injury). MSKTC TBI Factsheet.
3. **Neumann, D.,** Zupan, B., and Willer, B. Cognitive Rehabilitation for Emotion Recognition Deficits after Brain Injury. *Brain Injury Professional*. 2021, Volume 17, Issue 4
4. **Neumann, D.,** Miles, S.R., Sander, A., and Greenwald, B. [Understanding and Coping With Irritability, Anger, and Aggression After TBI](https://msktc.org/sites/default/files/MSKTC-IrrAftTBI-Factsheet-508.pdf). MSKTC TBI Factsheet.

**Social Media and Other accomplishments**

* The Conversation:[People with traumatic brain injury, who often lose empathy, can regain it with treatment](https://theconversation.com/people-with-traumatic-brain-injury-who-often-lose-empathy-can-regain-it-with-treatment-116982)
* Brainline (Anger and Frustration after Brain Injury):
  + [Anger and Frustration After Brain Injury](https://www.brainline.org/brain-injury-and-anger)
  + [Expert Answers](https://www.brainline.org/anger-and-frustration-after-brain-injury/expert-answers)
  + [Video Interviews](https://www.brainline.org/anger-and-frustration-after-brain-injury/video-interviews)
* WFYI: [Apps Helps People with Traumatic Brain Injuries](https://www.wfyi.org/news/articles/app-helps-people-with-traumatic-brain-injuries-identify-emotions)
* WFYI: [New Tool Helps Restore Emotion Recognition](https://www.wfyi.org/news/articles/new-tool-helps-restore-emotion-recognition)
* US News and World Report: [When You Can’t Put Your Feelings into Words: the Emotional Ignorance of Alexithymia](https://health.usnews.com/wellness/mind/articles/2018-03-28/when-you-cant-put-your-feelings-into-words-the-emotional-ignorance-of-alexithymia)
* The NOGGINS AND NEURONS Podcast: [Emotion Perception After TBI/Stroke w/ Drs. Zupan & Neumann](https://nogginsandneurons.podbean.com/e/emotion-perception-after-tbistroke-w-drs-zupan-neumann/)
* The NOGGINS AND NEURONS Podcast: [Emotion Perception After TBI/Stroke w/ Drs. Zupan & Neumann PART 2](https://nogginsandneurons.podbean.com/e/emotion-perception-after-tbistroke-w-drs-zupan-neumann-part-2/)
* Dr. Dawn Neumann’s evidence-based intervention for treating facial affect recognition deficits after brain injury (Class 1 level of evidence and deemed a Practice Standard) was developed into an electronic App, called “FACES”, and was made available on [Google Play](https://play.google.com/store/apps/details?id=com.obex.faces) and [Apple Store](https://apps.apple.com/us/app/faces-intervention/id1594651027) in November 2021.

**RESEARCH SUPPORT**

DoD/ CDMRP TBIPHRP W81XWH-22-2-0064 Neumann (PI). 09/30/22-09/29/25

Title: Building Emotional Self-Awareness Teletherapy (BEST): A Tool to Optimize Psychological Health Outcomes for Persons with Traumatic Brain Injury

Purpose: Examine preliminary efficacy of a teletherapeutic intervention improving emotion regulation and reducing symptoms of emotional distress in civilians and service members with mild TBI

Role: PI

NIDILRR 90DPTB0022. Hammond (PI). 09/01/22 to 8/31/27

Title: Indiana TBI Model Systems

Local study title (Neumann: PI): Intervention to Change Affect Recognition and Empathy (ICARE)

Purpose:

Role Co-PI; PI of local study;

CTSI ITSCBIRF Neumann (PI) 07/01/2021 – 06/30/2023

Title: Substance Use and Pain after Brain Injury: Preliminary Examination of the Role of Alexithymia.

Purpose: To explore alexithymia as a potentially moderating factor in substance use and chronic pain after brain injury.

Role: PI

NIDILRR Hammond (PI) 9/1/2020-8/31/2025

Title: BeHEALTHY: Chronic Disease Management for Traumatic Brain Injury. Develop a Chronic Disease Model for TBI

Purpose: To create a chronic disease management model for persons with TBI.

Role: Co-Investigator

NIHR 200495 Price (PI) 3/1/2020-2/28/2023

Title: Social Cognition Assessment and Rehabilitation for Families living with Brain Tumour (SCARF-BT): a Feasibility Study

Purpose: Explore the feasibility of screening for and then providing a rehabilitation protocol for emotional recognition

Role: Co-Investigator

NIJ /DOJ 2019-R2-CX-0030 Parrott (PI) 1/2/2020-12/30/25

Title: Resource Facilitation: A promising initiative shown to decrease recidivism in exiting offenders with traumatic brain injury

Purpose: Reduce recidivism and violent offenses in offenders with TBI being released from prison.

Role: Co-Principal Investigator

NIH R61MH119291 Hummer (PI) 5/15/19-4/30/22 (NCE)

Title: Virtual Reality to Improve Social Perspective Taking in Youth with Disruptive Behavior Disorders

Purpose: To explore virtual reality as a method for teaching children perspective taking skills

Role: Co-Investigator

NIDILRR Hammond (PI) 10/01/2017-9/30/2022

Title: Traumatic Brain Injury Model Systems

Purpose: Longitudinal study of traumatic brain injury outcomes

Role: Co-I

NIDILRR TBIMS local study

Title: Training to Reconnect with Emotional Awareness Therapy (TREAT)

Purpose: Assess efficacy of a treatment for emotional self-awareness at reducing TBI emotion dysregulation.

Role: PI

Title: Machine Learning Classification of Facial Affect Recognition Deficits after Traumatic Brain Injury for Informing Rehabilitation Needs and Progress.

Purpose: Explore visual processing deficits that contribute to impaired facial affect recognition after brain injury.

Role: Co-Investigator

## Completed Research Support

CTSI ITSCBIRF Christopher (PI) 07/01/2019 – 10/31/2022 (NCE)

1R21HD094232-01 NIH R21 NICHD Neumann (PI) 07/07/2018-01/31/2021(NCE)

Title: Intervention to Change Attributions that are Negative (ICAN): a New Approach to

Reducing Anger and Aggression after Brain Injury

Purpose: Randomized, wait-list controlled trial to examine changes in anger and aggression in participants with TBI who have been enrolled in a treatment designed to alter negative attributions about others behaviors.

NIDILRR Field Initiated Project Neumann (PI) 10/01/15-9/30/2019 (NCE)

Title: Examining determinants of negative attribution bias in people with traumatic brain injury

Purpose: To identify factors that contribute to negative attributions after brain injury in comparison to controls.

Role: PI

IU Research Support Funds Grant Christopher (PI) Neumann (Co-I) 7/1/2018- 6/30/2019

Title: Computational Intelligence Measurements Using Gaze Tracking, Automated Facial Landmark Recognition, and Deep Learning Classification to Identify Abnormalities in Visual Processing of Dynamic Emotional Stimuli after Traumatic Brain Injury

Purpose: Pilot work towards creating an automated system that will track faces in dynamic videos with minimally complex scenes and face front, and explore the ability to combine this with eye-tracking data.

Indianapolis University Collaborative Research Grant Hummer (PI) 06/01/16-11/30/17 (NCE)

Title: Virtual Reality to Assess and Treat Childhood Aggression

Purpose: To assess the feasibility of using virtual to measure aggression in adolescents

Role: Co-PI

Indiana Spinal Cord and Brain Injury Research Fund Neumann (PI) 7/01/2015-7/30/2018 (NCE)

Title: Behavioral mechanisms Underlying Facial Affect Recognition Deficits after Brain Injury

Purpose: To elucidate the behavioral processes that are impaired after TBI that are associated with poor emotion recognition from faces.

Role: PI

1R41HD077967-01 NIH/ STTR Phase I Neumann (PI) 7/01/2014-06/30/2016 Title: The Emotion Builder: An Intervention for Emotional Deficits after Brain Injury

The goal of this study is to develop and test the feasibility of a marketable virtual video game to treat problems with emotional self-awareness, affect recognition, and empathy after traumatic brain injury.

Role: PI

Indiana University Funding Opportunities for Neumann (PI) 06/1/15-11/30/15

Research Commercialization and Economic Success

Title: The Emotion Builder: An Intervention for Emotional Deficits after Brain Injury

Purpose: To create live action video clips of actors simulating real-life emotional scenarios that will be used as training exercises in a larger intervention designed to teach patients with brain injury to enhance their emotional awareness and functioning.

Role: PI

Indiana Spinal Cord and Brain Injury Research Fund Backhaus (PI) 8/01/2012-7/31/2015

Title: The Couples Coping and Relating with Empathy – Brain Injury Program (Couples CARE): A Skills-Based Intervention to Improve Marital Satisfaction and Adjustment after Brain Injury

The goal of this study is to pilot test the feasibility and effectiveness of an intervention designed to improve couples’ relationships in which one partner has had a brain injury.

Role: Co-Investigator

Center for Brain Rehabilitation, Advanced Imaging, and Neuroscience Neumann (PI) 01/01/2012- 6/30/2015

Title: Neurobiological mechanisms underlying affect recognition deficits after brain injury

The goal of this project is to use functional neuroimaging to investigate candidate mechanisms of affect recognition deficits after TBI.

Role: PI

H133F110013 NIDRR Mary E Switzer Fellowship Neumann (PI) 10/01/2011-9/30/2013

Title: Pilot study examining the relationship between anger and attributions of hostile intent after TBI.

The goal of this study is to determine if anger and aggression after TBI is related to perceiving other’s actions as being intentionally hostile.

Role: PI

Indiana Spinal Cord and Brain Injury Research Fund Neumann (PI) 7/01/2011-6/30/2013

Title: Understanding Intentions: a pilot study on anger after TBI

The goal of this study is to determine if anger after TBI is related to negative misinterpretations of people’s actions and behaviors.

Role: PI

H133G080043 NIDRR Field Initiated Project Willer (PI) 10/01/08-9/30/12

Title:Controlled study of affect recognition training for individuals with traumatic brain injury

This is an RCT to test the effectiveness of two interventions at improving affect recognition impairments after traumatic brain injury, compared to a control intervention.

Role: Site Principal Investigator (Carolinas Rehabilitation)

Cannon Research Grant 10-005 Neumann (PI) 4/01/10-3/30/11

Title: Using film clips to assess emotion recognition, emotion elicitation and empathy in persons with and without TBI

The goal of this project was to compare people with and without TBI on tasks of emotion recognition, emotional responses, empathy, and alexithymia; and to examine the relationship of these variables with one another.

Role: PI

Mark Diamond Research Fund, University at Buffalo SUNY SP-06-20 Neumann (PI) 04/01/06 to 03/31/08

Title: “An intervention to enhance affect recognition performance of persons with traumatic brain injury”.

This project pilot tested the effectiveness of an intervention to improve after recognition after TBI.

Role: PI