

Curriculum Vitae

Philip Schatz

Academic Office:

Saint Joseph's University
Psychology 222 Post Hall
Philadelphia, PA 19131

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Academic Preparation:

Ph.D. Clinical Neuropsychology: Drexel University, June 1995.
Pre-Doctoral Internship: The Toronto Hospital, Sept. 1991- 1992.
M.S. Neuropsychology: Drexel University, June 1990.
B.S. Psychology: Pennsylvania State University, January 1987.

Teaching:

Professor, Saint Joseph's University, *Philadelphia, PA*.

Assistant Professor, Aug. 1998 – 2005. Tenured: 2004;

Promoted to Associate Professor: 2005; Promoted to Professor: 2009

Undergraduate Courses Taught: Introductory Psychology, Computer Applications, Psychological Testing, Issues in Clinical Psychology, Ethics in Psychology, Neuropsychology, Research Methods, Statistics, Research Seminar in Brain Injury and Concussion.

Graduate Courses Taught: Assessment and Evaluation, Advanced Research Methodology, Advanced Multivariate Statistics, Advanced Research Methods and Statistics, Neuropsychology.

Adjunct Assistant Professor, Sept. 1992 – July 1998: Experimental, Introductory, Social and Cognitive Psychology; Computer Applications/Research Methods. Drexel University, *Philadelphia, PA*.

Neuroanatomy Instructor. Summer 1997 - 1999. Occupational Therapy Program, University of Sciences in Philadelphia, *Philadelphia, PA*.

Neuropsychology Grand Rounds. Sept. 1991 - Aug. 1992. The Toronto Hospital, *Toronto, Ontario*.

Clinical Work:

Consultant. July 2002 - 2007. Pennsylvania Department of Health, Pennsylvania Head Injury Program.

Consultant. Sept. 1999 - 2001. Pennsylvania Department of Public Welfare, CommCare Program.

Psychology Consultant. Sept. 1994 - Sept. 1998. Professional Psychology Group, *Bala Cynwyd, PA*.

Director of Psychological Services. June 1995 - Sept. 1996. Brighten Place, *Chalfont, PA*.

Neurorehabilitation Specialist. May 1993 - June 1995. Counseling and Rehab. Inc., *Wyomissing, PA*.

Neurobehavioral Specialist. Dec. 1992 - Apr. 1993. Moss Rehabilitation Hospital, *Phila., PA*.

Clinical Neuropsychology Intern. Sept. 1991 - August 1992. The Toronto Hospital, *Toronto, Ontario*.

Community Re-Entry Therapist. Feb. 1991 - April 1991. Moss Rehabilitation Hospital, *Phila., PA*.

Neuropsychology Intern. Mar. 1989 - June 1990. Drucker Brain Injury Center, Moss Rehab. *Phila., PA*.

Research Activities:

Director of Neuropsychology Research. Jan. 2009 - present. Sports Concussion Center of NJ. *Lawrenceville, NJ*.

Research Partner. March 2015 – present. Maine Concussion Management Initiative. *Waterville, ME*.

Research Consultant. May 1994 - 2007. Pennsylvania Head Injury Program.

Research Consultant. June 1999 - 2001. Department of Public Welfare CommCare Program.

Institutional Research Scientist. December 1997 - August 1998. Drexel University, *Philadelphia, PA*.

Data Analyst. June 1997 - June 1998. Drexel University Futures Center, *Philadelphia, PA*.

Post-Doctoral Research Fellow. June 1995 - June 1996. Drexel University, *Philadelphia, PA*.

Doctoral Dissertation. June 1995. Predicting level of independence following moderate to severe traumatic brain injury, Drexel University, *Philadelphia, PA*.

Research Associate. May 1988 - Dec. 1988. Teaching organizational thinking to reduce the demand on impaired memory, Moss Rehabilitation Hospital, *Philadelphia, PA*.

Distinguished Honors & Positions:

Faculty Merit Award: Achievement in Research, Saint Joseph's University, 2002, 2007, 2013.

Faculty Merit Award: Achievement in Teaching, Saint Joseph's University, 2011.

Distinguished Service Award: National Academy of Neuropsychology, 2008

Nelson Butters Award: Research Contributions to Neuropsychology, Nat'l Academy of Neuropsychology, 2007

Faculty Merit Award: Achievement in Service, Saint Joseph's University, 2008.

Fellow: National Academy of Neuropsychology, 2005.

Chair: Institutional Review Board, Saint Joseph's University, 2002-2012.

President: Philadelphia Neuropsychology Society, 2003-2004.

Chair: Information Technology, National Academy of Neuropsychology, 2003-2012

Director: National Academy of Neuropsychology distance Program, 1996-2003.

Board Member: Philadelphia Neuropsychology Society, 1999-2008.

Grants/Contracts:

2010-2013. Disorders of Consciousness (DOC) Advanced Care Protocol (ACP)," awarded by International Brain Research Foundation, Inc. pass through from Department of Defense sub-award number W81XWH-10-2-0102-SJU. Total Award Value: \$189,565

Co-Investigator, 1996 - 2002. National Academy of Neuropsychology distance Program.
Total Award Value: \$275,000

Summer Research Grant: Saint Joseph's University: 2002, 2006, 2015.

Publications: Peer-Reviewed Scholarly Research Papers (student co-authors in bold)

1. Schatz P, Elbin RJ, **Anderson MN**, **Savage J**, Covassin T. (2017). Effort, and perceived utility of the ImPACT assessment in college athletes. *Sport, Exercise, and Performance*, 6(3), 243-251
2. **Brett BL**, Solomon GS, **Hill J**, Schatz P. (2017). Two-year test-retest reliability in high school athletes using the four- and two-factor ImPACT composite structures: The effects of learning disorders and headache/migraine treatment history. *Archives of Clinical Neuropsychology*, 28, 1-11.
3. Moser RS, Schatz P (2017). Increased symptom reporting in young athletes based on history of previous concussions. *Developmental Neuropsychology*, 42(4), 276-283.
4. Davis G, Anderson V, Babl FE, Gioia GA, Giza CC, Meehan W, Moser RS, Purcell L, Schatz P, Schneider KJ, Takagi M, Yeates KO, Zemek R. (2017). What is the difference in concussion management in children as compared to adults? A systematic review. *British Journal of Sports Medicine*, 51(12), 949-957
5. Gerrard PB, Iverson GL, Atkins JE, Maxwell BA, Zafonte R, Schatz P, Berkner PD. (2017). Factor structure of ImPACT® in adolescent student athletes, *Archives of Clinical Neuropsychology* 32(1), 117-122.
6. Moser RS, Schatz P, Kollias K, **Grossner E**. (2017). One-year test-retest reliability of neurocognitive baseline scores in 10-12 year olds. *Applied Neuropsychology: Child*, 6(2):166-171.
7. **Sandel N**, Schatz P, Goldberg K, Lazar M. (2017). Gender differences in cognitive deficits and symptom reporting among acutely concussed high school lacrosse players. *American Journal of Sports Medicine*, 45(4), 937-944.
8. Elbin RJ, Sufrinko A, Schatz P, French J, Collins M, Kontos A. (2016). Removal from play after concussion and recovery time. *Pediatrics*, 138(3), e20160910
9. **Brett BL**, **Smyk N**, Solomon G, Baughman BC, Schatz P. (2016). Long-term stability and reliability of baseline cognitive assessments in high school athletes using ImPACT at 1-, 2-, and 3-year test-retest intervals, *Archives of Clinical Neuropsychology*, 31(8), 904-914.

10. **Womble M**, Shah KM, Schatz P, Reynolds E, Kontos AP. (2016). Test-retest reliability of computerized neurocognitive testing in youth ice hockey players. *Archives of Clinical Neuropsychology*, 31(4), 305-312.
11. Reynolds E, Fazio VC, **Sandel N**, Schatz P, Henry LC. (2016). Cognitive development and the Immediate Postconcussion Assessment and Cognitive Testing: A case for separate norms in preadolescents. *Applied Neuropsychology: Child*, 5(4), 283-293.
12. Elbin RJ, Knox J, Kegel N, Schatz P, Lowder H, French J, Burkhart S, Collins M, Kontos A. (2016). Assessing symptoms in adolescents following sport-related concussion: A comparison of four different approaches. *Applied Neuropsychology: Child*, 5(4), 294-302.
13. Reesman J, Pineda J, Carver J, Brice PJ, Zabel TA, Schatz P. (2016). Utility of the ImpACT test with deaf adolescents. *Clin Neuropsychol*, 30(2):318-27.
14. Lehman Blake M, Ott S, **Villanyi E**, Kazhuro K, Schatz P. (2015). Influence of language of administration on ImpACT performance by bilingual Spanish-English college students. *Arch Clin Neuropsychol*, 30(4):302-9.
15. Elbin RJ, Beatty A, Covassin T, Schatz P, Hydeman A, Kontos AP. (2015). A preliminary examination of neurocognitive performance and symptoms following a bout of soccer heading in athletes wearing protective soccer headbands. *Res Sports Med*, 23(2):203-14.
16. Schatz P, **Ybarra V**, Leitner D. (2015). Validating the accuracy of reaction time assessment on computer-based tablet devices. *Assessment*, 22(4), 405-10.
17. Iverson GL, Schatz P. (2015). Advanced topics in neuropsychological assessment following sport-related concussion. *Brain Injury*, 29, 263-275
18. Moser RS, Schatz P, Glenn M, Kollias KE, Iverson GL. (2015). Examining prescribed rest as treatment for adolescents who are slow to recover from concussion. *Brain Injury*, 29,58-63.
19. Moser R, Schatz P, **Lichtenstein J**. (2015). The importance of proper administration and interpretation of neuropsychological baseline and post-concussion computerized testing. *Applied Neuropsychology: Child*, 4, 41-48. DOI:10.1080/21622965.2013.791825
20. Schatz P, **Robertshaw S**. (2014). Comparing post-concussive neurocognitive test data to normative data presents risks for "above average" athletes. *Archives of Clinical Neuropsychology*, 29, 625-632
21. Elbin RJ, Schatz P, Lowder HB, Kontos AP. (2014). An empirical review of treatment and rehabilitation approaches used in the acute, sub-acute, and chronic phases of recovery following sports-related concussion. *Curr Treat Options Neurol*, 16(11):320. doi: 10.1007/s11940-014-0320-7.
22. Schatz P, **Kelley T**, Ott S, Solomon G, Elbin RJ, Higgins K, Scolaro Moser R. (2014). Utility of repeated assessment following invalid baseline performance. *Journal of Athletic Training*, 4,9 659-664
23. Nakayama N, Covassin T, Schatz P, Nogle S, Kovan J. (2014). Examination of test-retest reliability of a computerized neurocognitive test battery. *Am J Sports Med*, 6(42), 2000-5.
24. Ott S, Schatz P, Solomon G, Ryan JJ. (2014). Neurocognitive performance and symptom profiles of Spanish-Speaking Hispanic Athletes on the ImpACT test. *Archives of Clinical Neuropsychology*, 29, 152-163. doi:10.1093/arclin/act091
25. **Lichtenstein J**, Moser RS, Schatz P. (2014). Age and test setting affect the prevalence of invalid baseline neurocognitive test scores. *Am J Sports Med*, 42(2), 479-484

doi:10.1177/0363546513509225

26. Schatz P, Maerlender AC. (2013). A two-factor theory for concussion assessment using ImPACT: Memory and Speed. *Archives of Clinical Neuropsychology*, 28(8):791-7.
27. Schatz P., Ferris C. (2013). One-month test-retest reliability of the ImPACT test battery. *Arch Clin Neuropsychol*, 28(5), 499-504, doi:10.1093/arclin/act034.
28. Elbin RJ, Kontos AP, Kegel N, Johnson E, Burkhard S, Schatz P. (2013). Individual and combined effects of LD and ADHD on computerized neurocognitive concussion test performance: Evidence for separate norms. *Arch Clin Neuropsychol*, 28(5), 476-484, doi:10.1093/arclin/act024.
29. Schatz P, Glatts C. (2013). "Sandbagging" Baseline Test Performance on ImPACT, Without Detection, Is More Difficult than It Appears, *Arch Clin Neuropsychol*, 28(4), 236-244, doi:10.1093/arclin/act009
30. Schatz P, Sandel N. (2012). Sensitivity and specificity of the online version of ImPACT in high school and collegiate athletes. *Am J Sports Med*, 41(2), 321-326, doi: 10.1177/0363546512466038
31. Moser RS, Glatts C, Schatz P. (2012). Efficacy of immediate and delayed cognitive and physical rest for treatment of sports-related concussion. *J Pediatrics*, 161(5), 922-926. doi: 10.1016/j.jpeds.2012.04.012
32. Moser RS and Schatz P (2012). A case for mental and physical rest in youth sports concussion: It's never too late.. *Frontiers in Sports Neurology*, 3:171. doi: 10.3389/fneur.2012.00171
33. Kontos AP, Elbin RJ, Schatz P, Covassin T, Henry L, Pardini J, Collins MW. (2012). A revised factor structure for the Post Concussion Symptom Scale (PCSS): Baseline and post-concussion factors. *Am J Sports Med*, 40(10), 2375-2384, doi:10.1177/0363546512455400
34. Schatz P, Kontos A, Elbin RJ. (2012). Response to Mayers and Redick: "Clinical utility of ImPACT assessment for postconcussion return-to-play counseling: Psychometric issues." *J Clin Exp Neuropsychol*, 34(4), 428-34. [Commentary] doi:10.1080/13803395.2012.667789
35. Schatz P, Moser RS, Solomon GS, Ott SD, Karpf R. (2012). Prevalence of invalid computerized baseline neurocognitive test results in high school and college athletes. *Journal of Athletic Training*, 47(3), 289-296. doi:10.4085/1062-6050-47.3.14
36. Ramanathan D, McWilliams N, Schatz P, Hillary FG. (2012). Epidemiological shifts in elderly TBI: 18-year trends in Pennsylvania. *Journal of Neurotrauma*, 29, 1371-1378. doi:10.1089/neu.2011.2197
37. Elbin RJ, Schatz P, Covassin T. (2011). One-year test-retest reliability of the online version of ImPACT in high school athletes. *Am J Sports Med*, 39, 2319-24. doi: 10.1177/0363546511417173
38. Moser RS, Schatz P, Neidzowski K, Ott S. (2011). Group vs. individual administration affects baseline neurocognitive test performance. *Am J Sports Med*, 39, 2325-30. doi: 10.1177/0363546511417114
39. Schatz P & Moser RS. (2011). Current issues in pediatric sports concussion. *The Clinical Neuropsychologist*, 25(6), 1042-57. doi: 10.1080/13854046.2011.556669
40. Schatz P, Moser RS, Covassin T, Karpf R. (2011). Early indicators of enduring symptoms in high school athletes with multiple previous concussions. *Neurosurgery*, 68(6), 1632-1647. doi: 10.1227/NEU.0b013e31820e382e
41. DeFina PA, Fellus J, Thompson JWG, Eller M, Moser RS, Frisina PG, Schatz P, DeLuca J,

- Zigarelli-McNish M & Prestigiacoimo CJ. (2010). Improving outcomes of severe disorders of consciousness. *Restorative Neurology and Neuroscience*, 28(6), 769-80. doi: 10.3233/RNN-2010-0548
42. Schatz P. (2010). Long-term test-retest reliability of baseline cognitive assessments using ImPACT. *Am J Sports Med*, 38(1), 47-53. doi: 10.1177/0363546509343805
 43. Schatz P, **Neidzowski K**, Moser RS, Karpf R. (2010). Relationship between subjective test feedback provided by high-school athletes during computer-based assessment of baseline cognitive functioning and self-reported symptoms. *Arch Clin Neuropsychol*, 25(4):285-92. doi:10.1093/arclin/acq022
 44. Moser RS, Iverson GL, Echemendia RJ, Lovell MR, Schatz P, Webbe FM, Ruff RM, Barth JT; NAN Policy and Planning Committee. (2008). Neuropsychological evaluation in the diagnosis and management of sports-related concussion. *Archives of Clinical Neuropsychology*, 22(8), 909-916. doi:10.1016/j.acn.2007.09.004
 45. Covassin T, Schatz P & Swanik CB. (2007). Sex differences in neuropsychological function and post-concussion symptoms of concussed collegiate athletes. *Neurosurgery*, 61, 345-350. doi: 10.1227/01.NEU.0000279972.95060.CB
 46. Swanik CB, Covassin T, Stearne D, Schatz,P. (2007). The relationship between neurocognitive function and non-contact Anterior Cruciate Ligament injuries. *American Journal of Sports Medicine*, 35, 943-948. doi: 10.1177/0363546507299532
 47. Schatz P. & **Putz, BO**. (2006). Cross-validation of measures used for computer-based assessment of concussion. *Applied Neuropsychology*, 13, 151-159. doi: 10.1207/s15324826an1303_2
 48. Schatz P, Pardini JE, Lovell MR, Collins MW & Podell, K. (2006). Sensitivity and specificity of the ImPACT test battery for concussion in athletes. *Archives of Clinical Neuropsychology*, 21 91-99.
 49. Covassin T, Swanik CB, Sachs ML, Kendrick Z, Schatz P, Zillmer E & **Kaminaris C**. (2006). Sex differences on baseline neuropsychological function and concussion symptoms of collegiate athletes. *British Journal of Sports Medicine*, 40(11), 923-927. doi: 10.1136/bjism.2006.029496
 50. Moser RS, Schatz P & Jordan B. (2005). Prolonged effects of concussion in high school athletes. *Neurosurgery*, 57, 300-306. doi: 10.1227/01.NEU.0000166663.98616.E4
 51. Schatz P, **Jay K, McComb J & McLaughlin, J**. (2005). Misuse of statistical testing in Archives of Clinical Neuropsychology publications. *Archives of Clinical Neuropsychology*, 20(8), 1051-1057. doi:10.1016/j.acn.2005.06.006
 52. **Kanauss KM**, Schatz P & Puente AE. (2005). Current trends in reimbursement of professional neuropsychological services. *Arch Clin Neuropsychol*, 20(3), 341-353. doi:10.1016/j.acn.2004.09.002
 53. Schatz P & Zillmer E. (2003). Computer-based assessment of sports-related concussion. *Applied Neuropsychology*. 10(1), 42-47. doi: 10.1207/S15324826AN1001_6
 54. **McKeever C.** & Schatz P. (2003). Current issues in the assessment and management of concussions in sports-related injuries. *Applied Neuropsychology*, 10(1), 4-11. doi: 10.1207/S15324826AN1001_2
 55. **Browndyke JN**, Albert AL, Malone W, Schatz P, Paul RH, Cohen RA, Tucker KA & Gouvier Wm. (2002). Computer-related anxiety: Examining the impact of technology-specific affect on the performance of a computerized neuropsychological assessment measure. *Applied Neuropsychology*, 9(4), 210-218. doi: 10.1207/S15324826AN0904_3

56. Schatz P & **Browndyke J.** (2002). Applications of computer-based neuropsychological assessment. *Journal of Head Trauma Rehabilitation*, 17(5), 395-410.
57. Schatz P, **Hillary F, Moelter S** & Chute DL. (2002). Retrospective assessment of rehabilitation outcome following traumatic brain injury: Development and utility of the Functional Independence Level (FIL), *Journal of Head Trauma Rehabilitation*, 17(6), 510-525.
58. **Hillary F**, Schatz P, **Moelter S, Lowry JB**, Ricker JH & Chute DL. (2002). Motor vehicle collision factors influence severity and type of TBI, *Brain Injury*, 16(8), 729-740. doi: 10.1080/02699050110119844
59. Moser RS & Schatz P. (2002). Enduring effects of concussion in youth athletes. *Archives of Clinical Neuropsychology*, 17(1), 81-90. doi:10.1093/arclin/17.1.91
60. **Hillary F, Moelter S**, Schatz P & Chute DL. (2001). Seatbelts contribute to location of lesion in moderate to severe closed head trauma. *Archives of Clinical Neuropsychology*, 16(2), 165-175. doi:10.1093/arclin/16.2.171
61. Schatz P, **Hughes L** & Chute DL. (2001). Under-utilization of neuropsychology in traumatic brain injury rehabilitation: is managed care to blame? *NeuroRehabilitation*, 16(4), 281-287.
62. Schatz P. (2001). Commentary on: Psychometric concerns in neuropsychological testing. *NeuroRehabilitation*, 16(4), 303. [Commentary].

Publications: Peer-Reviewed Scholarly Research Papers: In Press

1. Worts P, Schatz P, Burkhart S. (in press). Test performance and test re-test reliability of the Vestibular/Ocular Motor Screening (VOMS) and King-Devick (K-D) test in adolescent athletes during a competitive sport season. *American Journal of Sports Medicine*.
2. Chase D, Smyk N, Schatz P, Franks R. (in press). The stability of engagement over comprehensive neuropsychological assessment in student athletes diagnosed with sports related concussion. *Developmental Neuropsychology*.
3. Moser RS, Olek, L, Schatz P. (in press). Gender differences in symptom reporting on baseline sport concussion testing across the youth age span. *Archives of Clinical Neuropsychology*.
4. Moser RS, Davis G, Schatz P. (in press). The age variable in childhood concussion management: A systematic review. *Applied Neuropsychology*.
5. Elbin RJ, Sufrinko A, **Anderson MN**, Schatz P, Covassin T, Mucha T, Collins MW, Kontos AP. (in press). Prospective study of changes in vestibular and ocular motor symptoms and impairment following concussion in high school athletes. *Journal of Neurologic Physical Therapy*.

Publications: Peer-Reviewed Scholarly Research Papers: In Review

1. Murray KJ, Moser RS, Schatz P. (in review). A factor analysis of gender differences in symptom baseline test results. *Clinical Journal of Sports Medicine*.
2. Schatz P, Maxwell B, Silverberg N, Li S, Berkner PD, Iverson GL. (in review). Regression to the mean on baseline cognitive testing in adolescent student athletes. *Archives of Clinical Neuropsychology*.
3. Charek DB, Elbin RJ, Sufrinko A, Schatz P, D'Amico NR, Collins MW, Kontos AP. (in review). Preliminary evidence of a dose response for continuing to play on recovery time after concussion. *Pediatrics*.
4. Elbin RJ, Schatz P, Mohler, S, Covassin T, Herrington J, Kontos AP. (in review). Establishing normative data, test-retest reliability, and Reliable Change for the King-Devick test in high school athletes. *Journal of Science and Medicine in Sport*.

Publications: Book Chapters

1. Schatz P. (in press). Concussion: The role of baseline testing. In V. Musahl, J. Karlsson, W. Krutsch, B. Mandelbaum, J. Espregueira-Mendes (Eds). *Return to Play in Football: An Evidence-Based Approach*. Berlin, Germany: Springer Press.
2. Elbin RJ, D'Amico N, Stephenson-Brown K, Schatz P. (in press). Learning disorder, attention deficit hyperactivity disorder, and sport-related concussion: A review of literature and clinical considerations. *Concussion in Athletics: Assessment, Management and Emerging Issues*. New York, NY: Nova Science Publishers.
3. Schatz P. (2016). Computer-based assessment: Current status and next steps. In T. Parsons & R. Kane (Eds.) *The Role of Technology in Clinical Neuropsychology*. New York, NY: Oxford University Press.
4. Bush S, Schatz P. (2016). Advanced technology and assessment: Ethical and methodological considerations. In T. Parsons & R. Kane (Eds.) *The Role of Technology in Clinical Neuropsychology*. New York, NY: Oxford University Press.
5. Schatz, P. (2012). Computer instrumentation issues in sport concussion assessment. In R. Echemendia & G. Iverson (Eds.) *The Oxford Handbook of Sport-related Concussion*. New York, NY: Oxford University Press.
6. Schatz, P. (2011). Computerized neuropsychological assessment in sport. In F. Webbe (Ed.) *The Handbook of Sport Neuropsychology*. (pp. 173-186). New York, NY: Springer.
7. Schatz, P., **Ruocco, A.C., Medaglia, J.** & Chute, D.L. (2008). Observing neural networking *in vivo*. In L. Benjamin (Ed.) *Favorite Activities for the Teaching of Psychology*. (pp. 46-50). Washington, DC: American Psychological Association.
8. Schatz, P. & Hillary, F.G. (2008). Epidemiological overview of motor vehicle collisions and driving deficits with neurologically impaired populations. In M. Schultheis & J. DeLuca (Eds.) *Handbook for the Assessment of Driving Capacity*. (pp. 59-69). Elsevier.
9. Schatz, P., **Covassin, T.** (2006) Assessing the College Athlete. In R. Echemendia (Ed.) *Sports Neuropsychology: A Clinical Primer*. (pp. 160-175). Guilford Publications.
10. Schatz, P. (2005). Applications of technology to assessment and intervention with older adults. In S. Bush and T. Martin (Eds.) *Geriatric Neuropsychology*. (pp. 85-96). Swets & Zeitlinger Publishers.
11. Schatz, P. (2005). Ethical Challenges with the use of Information Technology and Telecommunications in Neuropsychology. In S. Bush (Ed.) *Casebook of Ethical Challenges in Neuropsychology*. (pp. 190-198) Swets & Zeitlinger Publishers.
12. Chute, D.L., & Schatz, P. (1998). Observing neural networking *in vivo*. In L. Benjamin, et. al. (Eds.) *Activities Handbook for the Teaching of Psychology, Volume 4*. Washington, DC: American Psychological Association.

Publications: Encyclopedia Entries

1. Schatz, P. (2011). Dynamic assessment. In J. Kreutzer, J. DeLuca, B. Caplan (Eds.) *Encyclopedia of Clinical Neuropsychology*. Springer Science, pp. 905.
2. Schatz, P. (2011). Repeatable Brief Assessment of Neuropsychological Status (RBANS). In J. Kreutzer, J. DeLuca, B. Caplan (Eds.) *Encyclopedia of Clinical Neuropsychology*. Springer Science, pp. 2155-2156.
3. Schatz, P. (2011). Mini-mental status exam (MMSE). In J. Kreutzer, J. DeLuca, B. Caplan (Eds.) *Encyclopedia of Clinical Neuropsychology*. Springer Science, pp. 1627-1629.

4. Schatz, P. (2011). Forced-choice testing. In J. Kreutzer, J. DeLuca, B. Caplan (Eds.) *Encyclopedia of Clinical Neuropsychology*. Springer Science, pp. 1067.
5. Schatz, P. (2011). Dual simultaneous stimulation. In J. Kreutzer, J. DeLuca, B. Caplan (Eds.) *Encyclopedia of Clinical Neuropsychology*. Springer Science, pp. 894-895.
6. Schatz, P. (2011). Finger Tapping Test. In J. Kreutzer, J. DeLuca, B. Caplan (Eds.) *Encyclopedia of Clinical Neuropsychology*. Springer Science, pp. 1050-1051.

Invited Addresses & Paper Presentations:

1. Schatz P. (2018). Are there long-term effects of multiple concussions? Invited presentation at the Nosh and Neuro, Saint Joseph's University Neurosciences Program, Philadelphia, PA, January 2018.
2. Schatz P. (2016). Neurocognitive testing and concussion. Invited presentation at the Concussion Institute at Colby College's First Annual Summer Concussion Summit, Waterville ME, August 2016.
3. Schatz P. (2016). Assessing concussion: The evidence behind the tools. Invited presentation at the Emerging Frontiers in Concussion Conference, Pittsburgh PA. June 2016.
4. Schatz P. (2015). Neurocognitive evaluation of concussion. Invited presentation at the Konkussion Retreat, Toronto, Ontario, Canada, September 2015.
5. Elbin RJ, Schatz, P. (2015). Advances in evidence-based assessment and management in sport-related concussion. Presentation at the University of Louisiana, Lafayette, May 2015.
6. Schatz P. (2015). Factors affecting computer-based data collection: Timing accuracy, operating system, and device type. Presentation at the 2015 Meeting of the Society for Research in Child Development, Philadelphia PA, March 2015.
7. Schatz P. (2014). Emerging Neurocognitive Assessment. Invited presentation at the Concussion in Youth: Sport Research Summit, Fayetteville AR, November 2014.
8. Schatz P. (2014). Factors effecting change in the neurocognitive evaluation of concussion. Invited presentation at the Neuropsychology Research Seminar, Children's Hospital of Philadelphia, January 2014.
9. Schatz P. (2013). The psychometrics behind neurocognitive evaluation for concussion. Invited presentation at the Emerging Frontiers in Concussion Conference, UPMC Sports Medicine Concussion Program, Pittsburgh, PA, June 2013.
10. Schatz P. (2012). 3 R's of concussion: Recovery, Rest, Reliability. Invited Grand Rounds presentation at the UPMC Sports Medicine Concussion Program, University of Pittsburgh Medical Center, January 2012.
11. Schatz P. (2010). The dangers of sports-related concussion. Invited presentation at the Pennsylvania State University Neuropsychology Clinical Practicum workshop, November, 2010.
12. Schatz P, Covassin T, Kontos A, **Larson EA & Elbin RJ**. (2009). Factors affecting athletes' performance on baseline and post-concussion cognitive testing. Workshop presentation at the 29th Annual Conference of the National Academy of Neuropsychology, New Orleans, LA, November, 2009.
13. Schatz P & Echemendia R. (2007). "Controversies in the assessment and management of sports-related concussion". Workshop presentation at the 27th Annual Conference of the National Academy of Neuropsychology, Scottsdale, AZ, November, 2007.

14. Schatz P. (2007). "Understanding concussion assessment and evaluation." Invited presentation at the Kennedy Krieger Institute Neuropsychology Seminar. Baltimore, MD, March 2007.
15. Schatz P.& Moelter S. (2006). "Beyond the ANOVA: Alternative techniques for statistical analyses of neuropsychological data." Special topics presentation at the 26th Annual Conference of the National Academy of Neuropsychology, San Antonio, TX, October, 2006.
16. Moser RS, Schatz P, Lovell M & Collins M. (2005). "Knock Knock: Opening the Door to Youth Sports Concussion Services In Your Practice." Special topics presentation at the 25th Annual Conference of the National Academy of Neuropsychology, Tampa, FL, October, 2005.
17. Broshek D, Barth J, Webbe F, Kaushik T & Schatz P. (2005). "Sports Concussion Update: Research Findings to Guide Clinical Practice." Special topics presentation at the 25th Annual Conference of the National Academy of Neuropsychology, Tampa, FL, October, 2005.
18. Schatz P **Kanauss K.** "Update on the Effects of Managed Care on the Practice of Clinical Neuropsychology." Presentation at the 23rd Annual Conference of the National Academy of Neuropsychology, Dallas, TX, October, 2003.
19. Schatz P. "Important factors in developing sports-concussion research programs." Presentation at the University of Pittsburgh Medical Center's New Developments in Sports-Related Concussion, July 2002.
20. Schatz P & Zillmer E. "The Rorschach Records of Nazi War Criminals: Historical Perspectives and Current Research." Paper presentation at the 30th Annual Scholars' Conference on the Holocaust and the Churches, Saint Joseph's University, Philadelphia, PA, March 2000.
21. Schatz P & Chute DL. "Neuropsychology in film." Presentation at the 19th annual Conference of the National Academy of Neuropsychology, San Antonio, TX, November 1999.
22. Schatz P & Chute DL. "Professional Continuing Education over the Internet: Past, Present, Future." Presentation at the Syllabus98 Conference, Sonoma, CA, July 1998.
23. Schatz P, Chute DL, Davis KL. "Academic Technologies for the Behavioral and Social Sciences." Presentation at the Syllabus98 Conference, Sonoma, CA, July 1998.
24. Chute DL & Schatz P. "Professional societies and professional credits: keeping up with neuro-everything." Presentation at the Syllabus97 Conference, Sonoma, CA, July 1997.
25. Chute DL, Fraser A, Schatz P. "Faculty software development: What does it take to make the great stuff." Presentation at the Syllabus97 Conference, Sonoma, CA, July 1997.

Publications: Abstracts (student co-authors in bold)

1. Schatz P, **Ferris C.** (2017). Tracking developmental trajectories on neurocognitive testing in young athletes ages 5-12. *Br J Sports Med*, 51, A21-A22.
2. Moser, RS, Schatz P. (2017). Increased symptom reporting in middle school athletes based on history of previous concussions. *Br J Sports Med*, 51, A16-A17.
3. Covassin T, Elbin R, Schatz P, Beidler E, Wallace M. (2017). Documenting false-positive scores on the Sport Concussion Assessment Tool (SCAT3) in high school athletes. *Br J Sports Med*, 51, A51:A78.
4. Elbin RJ, Sufrinko A, Schatz P, French J, Collins MW, Kontos AP. (2016). Athletes that continue to play with sport-related concussion demonstrate prolonged recovery and worse outcomes, *Medicine and Science in Sports and Exercise*, 48(5 Suppl 1): 525.
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- (2015). Factors associated with invalid scores on baseline neurocognitive testing in athletes. *Archives of Clinical Neuropsychology*, 30(6), 505.
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 10. **Glatts C**. & Schatz P. (2012). "Sandbagging" baseline concussion testing on ImPACT is more difficult than it appears. *Archives of Clinical Neuropsychology*, 27, 621.
 11. Elbin RJ, Kontos AP, Schatz P, Covassin T, Pardini J, Collins MW. (2012). New concussion symptoms factors: Age and sex differences among high school and college athletes. *Med & Sci in Sport & Exercise* 44(5), S265.
 12. Schatz, P. & **Cameron, N**. (2011). The effects of technology-related and software-related factors on neurocognitive baseline test performance using ImPACT. *Archives of Clinical Neuropsychology*, 26, 521.
 13. Schatz, P. & **Smith, A**. (2010). The importance of screening for post-concussion motor symptoms. *Archives of Clinical Neuropsychology*, 25, 538
 14. Schatz, P., **Gibney, B.**, & Leitner, D. (2009). Validation of millisecond timing accuracy in microcomputers. *Archives of Clinical Neuropsychology*, 24, 538.
 15. Schatz, P., **Neidzowski, K.**, & Moser, R. (2009). Athlete's subjective feedback on baseline neurocognitive testing is related to decreased performance. *Archives of Clinical Neuropsychology*, 24, 502.
 16. Schatz, P., Pardini, JE., Lovell MR & Strauser, R. (2009). Discriminating between concussed and non-concussed high school athletes using ImPACT. *Archives of Clinical Neuropsychology*, 24, 503.
 17. **Sucharski, N.M.**, & Schatz, P. (2006). Assessing effort on baseline testing by athletes and normal controls using WMT and ImPACT. *Archives of Clinical Neuropsychology*, 21(6), 543.
 18. **Jay, K.** & Schatz, P. (2006). Helmet use among Pennsylvania motorcyclists: Cognitive dissonance among non-helmet wearers? *Archives of Clinical Neuropsychology*, 21(6), 534.
 19. **Sucharski, N.M.** & Schatz, P. (2005). Relationship between poor effort and baseline performance on ImPACT. *Archives of Clinical Neuropsychology*, 20(7), 894.
 20. **Kaminaris, C.I.** & Schatz, P. (2005). Gender differences in recovery trajectories following sports-related concussion in college athletes. *Archives of Clinical Neuropsychology*, 20(7), 914.
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30. **Kanauss, K., Schatz, P.** (2002). Current trends in the practice of clinical neuropsychology: Practice patterns, referral sources, and effects of managed care. *Archives of Clinical Neuropsychology, 17(8), 842.*
31. **Lowry, J., Giovanetti, T., Schatz, P., Nagele, D., Chute, D.** (2002) The relationship between verbal learning patterns, injury severity, and employability following traumatic brain injury. *Archives of Clinical Neuropsychology, 17(8), 776.*
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35. **Schatz, P. & Kyle, K.** (2001). Revisiting the utility of PIQ and VIQ to measure lateralization and functional recovery following acquired brain injury. *Archives of Clinical Neuropsychology, 16(8), 756.*
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47. **Horowitz, T.**, Schatz, P., & Chute, D.L. (1997). Trends in neuropsychological test usage. *Archives of Clinical Neuropsychology*, 12(4), 338-339.
48. Schatz, P. **Hillary, F.** & Chute, D.L. (1997). Predicting functional outcome with Disability Rating Scale scores following primary rehabilitation: What you see is what you get. *Archives of Clinical Neuropsychology*, 13(1), 147-148.
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Conference Poster and Paper Presentations:

1. Schatz P, Silverberg N, Li S, Maxwell B, Berkner P, Iverson G. (2017). Regression to the mean on baseline cognitive testing in adolescent student athletes. Poster presented at the 5th Annual Sports Neuropsychology Society Concussion Symposium, Cleveland, Ohio, April 2017.
2. Brett B, Solomon G, Hill J, Schatz P. (2017). Two-year test-retest reliability in high school athletes using the four- and two-factor ImPACT composite structures: The effects of learning disorders and headache/migraine treatment history. Poster presented at the 5th Annual Sports Neuropsychology Society Concussion Symposium, Cleveland, Ohio, April 2017.
3. Hill J, Schatz P. (2017, April). Accuracy of self-reported memory problems in children ages 5-11. Poster presented at the 5th Annual Sports Neuropsychology Society Concussion Symposium, Cleveland, Ohio, April 2017.
4. Grubb M, Schatz P. (2017, April). Establishing age-based invalidity cut-offs for ImPACT Pediatric. Poster presented at the 5th Annual Sports Neuropsychology Society Concussion Symposium, Cleveland, Ohio, April 2017.

5. Moser RS, Schatz P, Murray K. (2017). Effect of age at time of prior concussion on baseline neurocognitive performance and symptom scores. Poster presented at the 5th Annual Sports Neuropsychology Society Concussion Symposium, Cleveland, Ohio, April 2017.
6. Moser R, Vidal P, James M, Schatz P. (2017). Physical therapy intervention in post-concussion management. Poster presented at the 5th Annual Sports Neuropsychology Society Concussion Symposium, Cleveland, Ohio, April 2017.
7. Elbin RJ, Mohler S, Schatz P, Kontos A. (2017). Establishing normative data, test-retest reliability, and reliable change for the King-Devick test for sport-related concussion. Poster presented at the 5th Annual Sports Neuropsychology Society Concussion Symposium, Cleveland, Ohio, April 2017.
8. Sufrinko AM, Elbin RJ, Schatz P, Reynolds E, **Sandel N**, Collins MW & Kontos AP. (2017). Additional sport exposure following concussion has dose response effect on recovery time. Poster presentation at the International Neuropsychological Society Annual Meeting, New Orleans, LA, February 2017.
9. Sufrinko AM, Elbin RJ, Schatz P, Reynolds E, **Sandel N**, Collins MW & Kontos AP. (2017). Additional sport exposure following concussion has dose response effect on recovery time. Poster presented at the International Neuropsychological Society Annual Meeting, New Orleans, LA, February 2017.
10. Schatz P, **Ferris C**. (2016). Tracking developmental trajectories on neurocognitive testing in young athletes ages 5-12. Poster presentation at the 5th International Consensus Conference on Concussion in Sport, Berlin Germany, October 2016.
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12. Covassin T, Elbin R, Schatz P, Beidler E, Wallace M. (2017). Documenting false-positive scores on the Sport Concussion Assessment Tool (SCAT3) in high school athletes. Poster presentation at the 5th International Consensus Conference on Concussion in Sport, Berlin Germany, October 2016.
13. Elbin RJ, Sufrinko A, Schatz P, French J, Collins MW, Kontos AP. (2016). Athletes that continue to play demonstrate worse recovery outcomes than athletes immediately removed from play. Poster presented at the American College of Sports Medicine Conference. Boston, MA, May 2016.
14. **Anderson M**, Anderson M, Dobbs E, Schatz P, Elbin RJ. (2016). Baseline normative data and test-retest reliability of the vestibular/ocular motor screening (VOMS) assessment for high school athletes. Poster presented at the American College of Sports Medicine Conference. Boston, MA, May 2016.
15. Blake ML, Sobel D, Ott SD, Schatz P. (2016). Heading frequency and neuropsychological stability in female collegiate soccer players. Poster presented at Sport Neuropsychological Society, Atlanta, GA, April 2016.
16. **Brett BL**, **Smyk N**, Solomon G, Baughman BC, Schatz P. (2016). Long-term stability and reliability of baseline cognitive assessments in high school athletes using ImPACT at 1, 2, and 3-year test-retest intervals. Poster presented at Sport Neuropsychological Society, Atlanta, GA, April 2016.
17. Moser RS, Murray KJ, Schatz P. (2016). Baseline symptom clusters on the Post-Concussion Symptom Scale in 10 to 12 year old athletes. Poster presented at Sport Neuropsychological Society, Atlanta, GA, April 2016.

18. Ott SD, Moser RS, **Cosper C**, Schatz P. (2016). Test-retest reliability of the online version of ImPACT in 10-12 year-olds. Poster presented at Sport Neuropsychological Society, Atlanta, GA, April 2016.
19. Schatz P, **Strickland M**, Elbin RJ. (2016). History of migraine affects cognitive impairment and symptomatology after sport-related concussion. Poster presented at Sport Neuropsychological Society, Atlanta, GA, April 2016.
20. **Anderson M**, Fry K, Anderson M, Schatz P, Elbin RJ. (2016, April). Examining college student athlete behaviors toward baseline neurocognitive testing. Poster presented at Sport Neuropsychological Society, Atlanta GA, April 2016.
21. Wershba R, Silverberg N, Schatz P, Maxwell B, Zafonte R, Berkner P, Iverson G. (2016). Normative data for the Post-Concussion Scale in high school girls. Poster presentation at the Eleventh International Brain Injury Association World Congress on Brain Injury, Hauge, Netherlands, March 2016.
22. Iverson G, Wershba R, Silverberg N, Schatz P, Maxwell B, Zafonte R, Berkner P. (2016). Normative data for the Post-Concussion Scale in high school boys. Poster presentation at the Eleventh International Brain Injury Association World Congress on Brain Injury, Hauge, Netherlands, March 2016.
23. Wojtowicz M, Iverson G, Resch JE, Schatz P, Rayford M, Maxwell BA, Zafonte R, Berkner P. (2015). Factors associated with invalid scores on baseline neurocognitive testing in athletes. Poster presentation at the 35th Annual Conference of the National Academy of Neuropsychology, Austin, TX, November 2015.
24. **Anderson M**, Anderson M, Dobbs E, Schatz P, Elbin RJ. (2015). Baseline Normative Data and Test-Retest Reliability of the Vestibular/Ocular Motor Screening (VOMS) Assessment for High School Athletes. Poster presented at the Central States American College of Sports Medicine Conference, Warrensburg, MO, October 2015.
25. **Engler ND**, Gallion CJ, Schatz P, Bonacci JA, Elbin RJ. (2015). Investigating the test-retest reliability of the Standardized Concussion Assessment Tool 3 (SCAT3) in a sample of high school students. National Athletic Trainers' Association Conference, St Louis, MO, June 2015.
26. Elbin RJ, **Gallion C**, Dobbs E, Schatz P, Kontos AP, Covassin T. (2015) Investigating 1-hour test-retest reliability of the Immediate Post-concussion Assessment and Cognitive Testing (ImPACT): Evidence for a broader application? Poster presentation at the 3rd Annual Conference of the Sports Neuropsychology Society, Atlanta GA. May 2015.
27. Gardner AJ, **Musgrove K**, Iverson GL, McNeil D, Schatz P. (2015). Sensitivity and specificity of CogSport™ for detecting poor effort. Poster presentation at the 3rd Annual Conference of the Sports Neuropsychology Society, Atlanta GA. May 2015.
28. Moser RS, Kollias K, **Grossner E**, Schatz P. (2015). ImPACT test-retest reliability in young athletes. Poster presentation at the 3rd Annual Conference of the Sports Neuropsychology Society, Atlanta GA. May 2015.
29. Reynolds E, Fazio Sumrok V, Schatz P, Henry L, Kontos AP. (2015). Preadolescent performance on computerized neurocognitive testing: A case for separate norms. Poster presentation at the 3rd Annual Conference of the Sports Neuropsychology Society, Atlanta GA. May 2015.
30. **Smyk N**, Chase D, Schatz P, Franks RR. (2015). Stability of effort across comprehensive neuropsychological assessment in youth following sports-related concussion. Poster presentation at the 3rd Annual Conference of the Sports Neuropsychology Society, Atlanta GA. May 2015.

31. **Womble MN**, Reynolds E, Schatz P, Shah KM, Kontos AP. (2015). Influence of age and sex on test-retest reliability of ImPACT in youth ice hockey players. Poster presentation at the 3rd Annual Conference of the Sports Neuropsychology Society, Atlanta GA. May 2015.
32. **Ybarra V**, Schatz P. (2015). Effect of motivation on ImPACT testing. (2015). Poster presentation at the 3rd Annual Conference of the Sports Neuropsychology Society, Atlanta GA. May 2015.
33. **Gallion C**, Schatz P, Elbin RJ. (2015). Investigating the test-retest reliability of a new vestibular/ocular motor screening assessment for sport-related concussion. Presented at the University of Arkansas Annual Razorback Sports Medicine Symposium, Fayetteville, AR, January 2015.
34. **Kelley T**, Schatz P. (2014). Evaluation of different administration methods of a tablet-based reaction time test. Poster presentation at the 2nd Annual Conference of the Sports Neuropsychology Society, Dallas TX. April 2014.
35. Schatz P, **Grossner E**. (2014). Preliminary data supporting a short-form of the ImPACT test. Poster presentation at the 2nd Annual Conference of the Sports Neuropsychology Society, Dallas TX. April 2014.
36. Schatz P, **Ybarra V**, Leitner D. (2014). Analysis of millisecond timing accuracy on the iPad and Android. (2014). Poster presentation at the 2nd Annual Conference of the Sports Neuropsychology Society, Dallas TX. April 2014.
37. Moser, RS, **Glenn M**, Schatz P. (2014). Evidence for the utility of comprehensive rest in youth concussion. Poster presentation at the 2nd Annual Conference of the Sports Neuropsychology Society, Dallas TX. April 2014.
38. Moser RS, Karpf R, Schatz P. (2014). Relationship between history of previous concussion and the risk of sustaining a second concussion. Poster presentation at the 2nd Annual Conference of the Sports Neuropsychology Society, Dallas TX. April 2014.
39. Higgins K, Ott S, Schatz P. (2014). Baseline profiles of athletes with ADHD, learning disability, dyslexia, multiple concussions or insufficient effort (sandbagging). Poster presentation at the 2nd Annual Conference of the Sports Neuropsychology Society, Dallas TX. April 2014.
40. Elbin RJ, Gallion C, Schatz P, Covassin T. (2014). Examining self-reported strenuous exercise on baseline neurocognitive test performance in high school athletes. Poster presentation at the 2nd Annual Conference of the Sports Neuropsychology Society, Dallas TX. April 2014.
41. **Pineda P**, Schatz P, Reesman J. (2014). Utility of the ImPACT with Deaf Adolescents. Poster Presentation at the 42nd Annual Conference of the International Neuropsychology Society. Seattle WA. February 2014.
42. Schatz P, Iverson G. (2014). Improving the Psychometric Interpretation of ImPACT using Base Rate Analyses. Poster Presentation at the 42nd Annual Conference of the International Neuropsychology Society. Seattle WA. February 2014.
43. **Sandel NK**, Schatz P, Lovell MR, Solomon GS. (2014). The use of psychostimulants among adolescent athletes with reported ADHD impacts computerized neurocognitive baseline test performance. Poster Presentation at the 42nd Annual Conference of the International Neuropsychology Society. Seattle WA. February 2014.
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45. **Sandel NK**, Lovell MR, Solomon GS, Schatz P. (2014). Adolescent athletes with a history of seizures report a greater number of symptoms at baseline compared to matched controls. Poster Presentation at the 42nd Annual Conference of the International Neuropsychology Society. Seattle WA. February 2014.
46. Lichtenstein J, Moser RS, **Glatts C**, Schatz P. (2013). Frequency of invalid ImPACT baselines in a private practice setting: The implications of age. Poster Presentation at the 11th Annual Conference of the American Academy of Clinical Neuropsychology. Chicago, Ill. June, 2013.
47. Moser RS, Schatz P. (2013). Rest improves concussion symptoms in youth even when rest is delayed: A preliminary study. Poster presentation at the 2013 International Sports Concussion Symposium. Minneapolis, Minn. May, 2013.
48. Ott S, Schatz P, Solomon G, Ryan JJ. (2013). Neurocognitive Performance of Spanish-Speaking Hispanic Athletes on ImPACT. Poster presentation at the 2013 International Sports Concussion Symposium. Minneapolis, Minn. May, 2013.
49. **Higgins K, Kelley T**, Elbin RJ, Ott S, Solomon G & Schatz P. (2013). Utility of repeated administration of ImPACT following an invalid baseline. Poster presentation at the 2013 International Sports Concussion Symposium. Minneapolis, Minn. May, 2013.
50. Lovell M, Kontos AP, Elbin RJ, Schatz P. (2012) Comparison of athletes with LD and ADD/ADHD to those without on computerized neurocognitive concussion test performance: Evidence for separate norms. Paper Presented at the Ninth World Congress on Brain Injury, Edinburgh, Scotland, March 2012..
51. Schatz P. & **Ferris C**. (2012). One-month test-retest reliability of ImPACT. Poster presentation at the 32nd Annual Conference of the National Academy of Neuropsychology, Nashville, TN, November, 2012.
52. **Glatts C**. & Schatz P. (2012). "Sandbagging" baseline concussion testing on ImPACT is more difficult than it appears. Poster presentation at the 32nd Annual Conference of the National Academy of Neuropsychology, Nashville, TN, November, 2012.
53. Elbin, R.J., Kontos, A.P., Schatz, P., Covassin, T., Pardini, J., Collins (2012). "New concussion symptoms factors: Age and sex differences among high school and college athletes." Poster presentation at the American College of Sports Medicine Conference, San Francisco, CA, June 2012.
54. **Ramanathan D**, McWilliams N, Schatz P, Hillary FG. (2012). Increase in Traumatic Brain Injury Incidence in Older Adults: 18-Year Trends in Pennsylvania. Poster presentation at the 40th Annual Conference of the International Neuropsychological Society, Montreal QUE, February, 2012.
55. Schatz, P., **Cameron, N**. (2011). The effects of technology-related and software-related factors on neurocognitive baseline test performance using ImPACT. Poster presentation at the 31st Annual Conference of the National Academy of Neuropsychology, Marco Island, FL, October, 2011.
56. Schatz, P., **Smith, A**. (2010). The importance of screening for post-concussion motor symptoms. Poster presentation at the 30th Annual Conference of the National Academy of Neuropsychology, Vancouver, BC, October, 2010.
57. DeFina, P. A. Fellus, J., Thompson, J. W. G., Eller, M., Moser, R. S., Frisina, P. G., Schatz, P., DeLuca, J., Zigarelli-McNish, M., Fallahpour, K., & Prestigiacomo, C. J. (2010). Improving outcomes of severe disorders of consciousness. Annual Congress of the International Brain Injury Association, Washington, DC, March 10-14, 2010.

58. Schatz, P., **Gibney, B.**, & Leitner, D. Validation of millisecond timing accuracy in microcomputers. Poster presentation at the 29th Annual Conference of the National Academy of Neuropsychology, New Orleans, LA, November, 2009.
59. Schatz, P., **Neidzowski, K.**, & Moser, R. Athlete's subjective feedback on baseline neurocognitive testing is related to decreased performance. Poster presentation at the 29th Annual Conference of the National Academy of Neuropsychology, New Orleans, LA, November, 2009.
60. Schatz, P., Pardini, JE., Lovell MR & Strauser, R. Discriminating between concussed and non-concussed high school athletes using ImPACT. Poster presentation at the 29th Annual Conference of the National Academy of Neuropsychology, New Orleans, LA, November, 2009.
61. **Sucharski, N.M.**, & Schatz, P. Assessing effort on baseline testing by athletes and normal controls using WMT and ImPACT. Poster presentation at the 26th Annual Conference of the National Academy of Neuropsychology, San Antonio, TX, October, 2006.
62. **Jay, K.** & Schatz, P. Helmet use among Pennsylvania motorcyclists: Cognitive dissonance among non-helmet wearers? Poster presentation at the 26th Annual Conference of the National Academy of Neuropsychology, San Antonio, TX, October, 2006.
63. **Sucharski, N.M.** & Schatz, P. "Relationship between poor effort and baseline performance on ImPACT." Poster presentation at the 25th Annual Conference of the National Academy of Neuropsychology, Tampa, FL, October, 2005.
64. **Kaminaris, C.I.** & Schatz, P. "Gender differences in recovery trajectories following sports-related concussion in college athletes." Poster presentation at the 25th Annual Conference of the National Academy of Neuropsychology, Tampa, FL, October, 2005.
65. **Covassin, T., McKeever, C.,** Sachs, M., Schatz, P., & Zillmer, E. "Implementation of the Philadelphia Sports Concussion Project: A model for neuropsychologists and certified Athletic trainers in the rehabilitation of sport concussions." Poster presentation at the Association for the Advancement of Applied Sport Psychology, Baltimore MD, July 2004.
66. Stump, J., Schatz, P., Lovell, M., Collins, M. "Sensitivity and specificity of the ImPACT test battery in athlete's concussion status." Poster presentation at the 32nd Annual Meeting of the International Neuropsychology Society. Baltimore, MD, February 2004.
67. **Schneider, J., McKeever, C., Covassin, T.,** Sachs, M., Wait, S., Clayborne, J., Schatz, P. & Zillmer, E. (2003). "The evaluation of pre- and post- measures of emotional indices associated with sports-related concussion." Poster presentation at the 23rd Annual Conference of the National Academy of Neuropsychology, Dallas, TX, October, 2003.
68. **Kanauss, K.,** Schatz, P., Rosenstein, L. & Puente, A. "Effect of Managed Care on the Practice of Clinical Neuropsychology." Poster presentation at the 23rd Annual Conference of the National Academy of Neuropsychology, Dallas, TX, October, 2003.
69. **Ayala, J., Jefferson, A., Cosentino, S.,** Kelley, R., Lippa, C., Koffler, S., Littlefield, L., Schatz, P. & Chute, D. "Validation of a Computerized Cognitive Assessment Tool: Assessing the Locked In Patient." Poster presentation at the 23rd Annual Conference of the National Academy of Neuropsychology, Dallas, TX, October, 2003.
70. **McKeever, C., Schneider, J., Covassin, T.,** Sachs, M., Neva, C., Kendzior, S., Schatz, P. & Zillmer, E. "The assessment of baseline neuropsychological functioning among collegiate athletes: The relevance of concussion history and concussion severity." Poster presentation at the 23rd Annual Conference of the National Academy of Neuropsychology, Dallas, TX, October, 2003.

71. Schatz, P., **Covassin, T., McKeever, C., Palumbo, J.,** Zillmer, E. & Sachs, M. "History of Concussion and Baseline Test Performance for Collegiate Club Sport versus Varsity Athletes." Poster presentation at the 23rd Annual Conference of the National Academy of Neuropsychology, Dallas, TX, October, 2003.
72. Hillary F., **Mann, C.,** Schatz P. "Increased risk for concussion in female athletes." Poster presentation at the 22nd Annual Conference of the National Academy of Neuropsychology, Miami FL, October, 2002.
73. **Kanauss, K.,** Schatz, P. "Current trends in the practice of clinical neuropsychology: Practice patterns, referral sources, and effects of managed care." Poster presentation at the 22nd Annual Conference of the National Academy of Neuropsychology, Miami FL, October, 2002.
74. **Lowry J.,** Giovenetti T., Schatz P., Nagele D., Chute, D.L. "The Relationship between Verbal Learning Patterns, Injury Severity, and Employability Following Traumatic Brain Injury." Poster presentation at the 22nd Annual Conference of the National Academy of Neuropsychology, Miami FL, October, 2002.
75. **McKeever, C., Covassin, T.,** Schatz, P., Zillmer, E., Sachs, M. "Determining a Schedule for Serial Post-concussion Assessments: The Philadelphia Sports Concussion Program." Poster presentation at the 22nd Annual Conference of the National Academy of Neuropsychology, Miami FL, October, 2002.
76. Schatz, P., **Putz, B.** "Use of Reliable Change Indices, correlation coefficients, and dependent-samples t-tests to document stability of computerized assessment measures over a one-year period." Poster presentation at the 22nd Annual Conference of the National Academy of Neuropsychology, Miami FL, October, 2002.
77. Hillary, F., Schatz, P., Moelter, S., **Lowry, J.** & Chute, D.L. "Motor vehicle collision types and brain injury: Objects in the rear view mirror may be more dangerous that they appear." Poster Presentation at the 21st meeting of the National Academy of Neuropsychology, San Francisco, CA, Oct-Nov. 2001.
78. Schatz, P. & **Kyle, K.** "Revisiting the utility of PIQ and VIQ to measure lateralization and functional recovery following acquired brain injury." Poster Presentation at the 21st meeting of the National Academy of Neuropsychology, San Francisco, CA, Oct-Nov. 2001.
79. Schatz, P. & **MacNamara, K.** "Enduring effects of previous concussion in college freshmen and sophomores." Poster Presentation at the 21st meeting of the National Academy of Neuropsychology, San Francisco, CA, Oct-Nov. 2001.
80. Moser, RM. & Schatz, P. "Enduring effects of cerebral concussion in youth athletes." Poster Presentation at the UPMC Concussion Conference, Pittsburgh, PA, July 2001.
81. Hillary, F., Schatz, P., **Newman, H.** & Chute DL. "Vehicular factors affect injury location, severity and outcome." Poster presentation at the 20th Annual Conference of the National Academy of Neuropsychology, Orlando, FL, November, 2000.
82. Schatz, P., **Hughes, L.** & Chute DL. "Factors affecting who receives neuropsychological testing following moderate-to-severe TBI." Poster presentation at the 20th Annual Conference of the National Academy of Neuropsychology, Orlando, FL, November, 2000.
83. **Gardner, W.,** Schatz, P., **Hillary, F.** & Chute, D. "The effect of behavioral, personality and emotional changes after brain injury on caregiver relationships." Poster presentation at the 19th Annual Conference of the National Academy of Neuropsychology, San Antonio, TX, November, 1999.
84. **Hillary, F.,** Schatz, P., **Moelter, S.** & Chute, D. "Effect of cause of injury on lesion location, injury severity and outcome following traumatic brain injury." Poster presentation at the 19th Annual Conference of the National Academy of Neuropsychology, San Antonio, TX, November, 1999.

85. Schatz, P., Moelter, S. & **Fraguito, M.** "Computer-based assessment of malingering." Poster presentation at the 19th Annual Conference of the National Academy of Neuropsychology, San Antonio, TX, November, 1999.
86. **Moelter, S.**, Schatz, P. & Chute, D. "Quality of signature as a measure of outcome following traumatic brain injury." Poster presentation at the 18th Annual Conference of the National Academy of Neuropsychology, Washington, DC, November, 1998.
87. **Moelter, S.**, Schatz, P., **Hillary, F.** & Chute, D. "Evaluation of post-acute rehabilitation status in traumatic brain injury: Discrepancies in client ratings between facility-based and independent case managers." Poster presentation at the 18th Annual Conference of the National Academy of Neuropsychology, Washington, DC, November, 1998.
88. Schatz, P. & **Browndyke, J.** "Trends in computer usage and means of obtaining CE credits among professional psychologists." Poster presentation at the 18th Annual Conference of the National Academy of Neuropsychology, Washington, DC, November, 1998.
89. Schatz P. & Chute, D. "Efficacy of neuropsychological evaluations in long-term rehabilitation." Poster presentation at the 18th Annual Conference of the National Academy of Neuropsychology, Washington, DC, November, 1998.
90. **Hillary, F.**, Schatz, P., & Chute, D.L. "The effect of seat belt usage on location of brain injury." Poster presentation at the 17th Annual Conference of the National Academy of Neuropsychology, Las Vegas, NV, November, 1997.
91. **Horowitz, T.**, Schatz, P., & Chute, D.L. "Trends in neuropsychological test usage." Poster presentation at the 17th Annual Conference of the National Academy of Neuropsychology, Las Vegas, NV, November, 1997.
92. Schatz, P. **Hillary, F.** & Chute, D.L. "Predicting functional outcome with Disability Rating Scale scores following primary rehabilitation: What you see is what you get." Poster presentation at the 17th Annual Conference of the National Academy of Neuropsychology, Las Vegas, NV, November, 1997.
93. **Hillary, F.** & Schatz, P. "Pennsylvania drivers and seat belts: good decisions versus poor outcomes." Pennsylvania Psychological Association Annual Convention, Harrisburg, PA, June 1997.
94. **Horowitz, T.** & Schatz, P. "Trends in neuropsychological test utilization from 1980 to 1996." Pennsylvania Psychological Association Annual Convention, Philadelphia PA, June 1996.
95. Schatz, P. & Chute, D.L. "Predicting level of independence following moderate and severe traumatic brain injury." Poster presentation at the 15th annual convention of the National Academy of Neuropsychology, San Francisco, CA., November, 1995.

Publications: Other Chapters , CD-ROM's, Neuropsychological Tests

1. Schatz, P. (2008). Computerized Neuropsychological Deficit Scale (NDS) Scoring Program. Lawrenceville, NJ: Practice Shapers Inc.
2. Schatz, P. & Morgan, J. (2003). *Professional Ethics and Neuropsychology, Version 1.0.* Philadelphia, PA: National Academy of Neuropsychology.
3. Schatz, P & Chute, D.L. (2000). *Neuroanatomy and Medical Neurosciences, Version 4.2.* Philadelphia, PA: National Academy of Neuropsychology.
4. Schatz, P. & Chute, D.L. (2000). *Mild Traumatic Brian Injury, Version 2.1* Philadelphia, PA: National Academy of Neuropsychology.

5. Schatz, P. (2000). Traumatic Brain Injury Demographics. In P. Schatz and D.L. Chute (Eds.) *Mild Traumatic Brian Injury*. Philadelphia, PA: National Academy of Neuropsychology.
6. Schatz, P. & Barth, J.T. (2000). Assessment of Outcome following TBI. In P. Schatz and D.L. Chute (Eds.) *Mild Traumatic Brian Injury*. Philadelphia, PA: National Academy of Neuropsychology.
7. Schatz, P. & Barth, J.T. (2000). Assessment of Severity of TBI and Functional Outcome Measures. In P. Schatz and D.L. Chute (Eds.) *Mild Traumatic Brian Injury*. Philadelphia, PA: National Academy of Neuropsychology.
8. Chute, D. L. & Schatz, P. (2000). Current Functional Ability Rating (C-FAR) for individuals with acquired cognitive deficits, autism, and other neuropsychological impairments in the COMMCARE Program. Harrisburg, PA: Pennsylvania Department of Public Welfare.
9. Chute, D. L. & Schatz, P. (1999). Current Functional Ability Rating (C-FAR) in the Pennsylvania Head Injury Program. Harrisburg, PA: Pennsylvania Department of Health.

Organizational Service: Technological:

Developer. Jan. 2008 - 2009. NDS Scoring Program, Practice Shapers, LLC, Lawrenceville, NJ.
Webmaster. Sept. 1996 - 2007. National Academy of Neuropsychology.
Webmaster. Sept. 1998 - 2008. Philadelphia Neuropsychology Society.
Course Development. 1996 - 2004. National Academy of Neuropsychology distanCE Program.
Workshop Leader. Developing courses for the World-wide Web: Web page design. Syllabus Press, Inc. Sonoma State University, CA, 1997-1999.
Software Development. 1996 - 2000. Introductory, Cognitive, and Abnormal Psychology Course work. MacLaboratory Inc., Devon, PA.

University Service – Appointed and Elected Committee Work

Interim Ad-Hoc Budgeting and Planning Committee	2014 - 2016
Board on Rank and Tenure (elected)	2013
Faculty Senate Executive Committee	2011 - 2013
Faculty Review Board (elected)	2008 - 2013
Chair, Institutional Review Board for the Protection of Human Subjects in Research	2002 - 2011
Hearing Committee (elected, then appointed as Chair)	2005 - 2007
Elections Committee (appointed, served as chair 2004-2006)	2002 - 2005

University Service - College Level

Ethics Intensive Committee	2013 - present
Health Professions Advisory Committee	2013, 2018
Summer Scholars Committee (appointed)	2006 - 2016
College of Arts and Sciences, College Council Executive Committee (elected)	2006 - 2009
	2015 - 2017
CAS Laptop Committee	2005 - 2009
Advisory Board for the Annual Scholars' Conference on the Holocaust and the Churches	2003 - 2008
Sigma Xi Grants Reviewer	2000

University Service: Technological

Academic Advisory Team for Computer Replacement	2008 - 2009
Electronic Communications Committee (co-Chair)	2008 - 2009
Distributed Education Task Force	2003 - 2004
Content Management System Evaluation Committee	2003
Faculty Bibliography Committee	2003
Web Site Focus Group	2003

Task Force for Distant Education	2000 - 2001
JesuitNET Discussion Group	2000
Technology Open House, Presenter	1999 - 2002
Task Force for Classroom Technology	1999 - 2001
Campus Pipeline Committee	1999 - 2000

University Service: Departmental

Department Library Liaison	2007 - 2013
Grader: Graduate Comprehensive Examinations	2001 - present
Psychology Department Webmaster	1998 - 2009
BRT Document of Expectations Sub-Committee	2007 - 2008
Department Program Review Committee	2005 - 2008
Departmental Software Audit	2002
Moore Psychology Club (advisor)	1998 - 2001

Editorial Work:

Editorial Board:

Archives of Clinical Neuropsychology	2003 - 2016
Developmental Neuropsychology	2017 - present

Reviewer for:

Concussion	2016 - present
Archives of PM&R	2016 - present
Developmental Neuropsychology	2014 - present
British Journal of Sports Medicine	2013 - present
Behavior Research Methods	2013 - present
Research in Sports Medicine	2013 - present
Journal of Adolescent Health	2013 - present
Journal of Attention Disorders	2013 - present
JAMA Pediatrics	2013 - present
Journal of Neurotrauma	2012 - present
Neurosurgery	2011 - present
Pediatrics	2011 - present
Frontiers in Sports Neurology	2010 - present
American Journal of Sports Medicine	2010 - present
Clinical Journal of Sports Medicine	2010 - present
Journal of Athletic Training	2009 - present
Physician and Sports Medicine	2009 - present
Journal of Clinical and Experimental Neuropsychology	2007 - present
Journal of the International Neuropsychology Society	2006 - present
Applied Neuropsychology	2005 - present
Archives of Clinical Neuropsychology	2003 - present
The Clinical Neuropsychologist	2002 - present
Assessment	2002 - present
Brain Imaging and Behavior	2008
Evolutionary Psychology	2007
Psychosomatics	2002
Rehabilitation Psychology	2002
Neuropsychology Review	2000

I have reviewed textbooks for:

Brooks Cole, Anker Publishers, Atomic Dog Publishers, McGraw Hill, Routledge Press

Journal Issue Editor:

Archives of Clinical Neuropsychology, 16(8), 17(8)

Reviewer for Scientific Peer Advisory and Review Services: American Institute of Biological Sciences, through the US Army Medical Research and Materiel Command (USAMRMC) and Office

of Naval Research (ONR):

Concept Award review	September 2005
Force Health Protection proposals	June 2007
Post Traumatic Stress Disorder and Traumatic Brain Injury	August 2007
New Investigator Awards: Cognitive Rehabilitation	December 2007
New Investigator Awards: Clinical Elucidation	December 2007
Investigator-initiated Awards: Clinical Elucidation	December 2007
Advanced Technology: Clinical Treatment	January 2008
Warfighter Intramural Research Program	August 2008
Psychological Health, Polytrauma, and Operational Health	February 2012
Army Rapid Intervention Fund	April 2012
USAMRMC unsolicited proposals	August 2012

Graduate Student Development: SJU: Masters Program

Grossner, E. Validating ImSAT as a Short Form of ImPACT	2015
Ybarra, V. Effect of Motivation on ImPACT Testing	2015
Ferris, C. iPad imPACT and the detection of malingering behavior	2014
Kelly, T. Validation of neurocognitive test administration on tablet-based computers: evaluating mechanisms of human-tablet interaction	2014
Robertshaw, S. Cross-Validation of iPad ImPACT and SCAT2	2014
Cameron, N. Establishing the equivalency between the desktop and onlineversions of ImPACT	
Glatts, C. The effects of coached versus naïve malingering on the validity of neurocognitive test results	2012
Posey, S. The effect of concussion history and self-reported or actual motor symptoms on baseline neurocognitive functioning and balance performance	2011
Dragani, J. Effects of concussions on cognitive performance in club sport athletes.	2010
Mattschei, C. Effects of oral contraceptives on symptoms and baseline Cognitive performance in college athletes	2010
Cessna, T. Multi-dimensional representation of odors.	2009
Gibney, B. Millisecond timing accuracy in microcomputers.	2009
Savage, M. Exploring Unfocused and Focused Trichotillomania.	2008
Sucharski, N. Relationship between poor effort and baseline performance on ImPACT.	2006
Jay, K., Attitudes and behaviors that predict motorcycle helmet use: A look at voluntary helmet use in Pennsylvania after the 2003 repeal.	2006
McComb, J. Posttraumatic seizures, antiepileptic drugs, and outcome in traumatic brain injury.	2005
Palumbo, J. Incidence of concussion and differences on baseline testing among varsity versus club sport athletes.	2005
Filmyer, T. An evaluation of school support groups for newly relocated adolescents.	2004
Blair, K., Verbal memory deficits in children following left temporal Lobectomy. (co-chair)	2004
Kanauss, K. Factors affecting the clinical practice of neuropsychology.	2003
Putz, B. Cross-validation of computer-based and paper-based measures attention and concentration.	2002
Kyle, K. Neuropsychological assessments as a predictor and measure of outcome following traumatic brain injury.	2002
Orlando, T. Measuring object versus location based attention.	2001
Fragnito, M. Computer-based assessment of malingering.	2001
Hughes, L. Factors affecting who receives neuropsychological evaluations following traumatic brain injury,	2000

Graduate Student Development: External Ph.D. Committees:

- Tanenbaum, J. (2017). Individual and collective effects of attention deficit/hyperactivity disorder and learning disabilities on changes in neurocognitive functioning in adolescents and young adults following a sports-related concussion. Psy.D. Widener University.
- Sandel, N. (2015). High school lacrosse and soccer players' neurocognitive performance and symptoms before and after concussion. Psy.D. Widener University.
- Nakayama, Y. (2013). Examination of test-retest reliability of a computerized neurocognitive test battery. Ph.D. Michigan State University.
- Tinker, J. (2010). Reported visual disturbance and post-concussion cognitive function in collegiate athletes: The relationship between symptom report and neurocognitive outcome. Ph.D. Drexel University.
- Schneider, J. (2006). Emotional sequelae of sports-related injuries: Concussive and orthopedic injuries. Ph.D. Drexel University.
- McKeever, C. (2004). Assessment of sports-related concussions: Program implementation, incidence, severity, and recovery from injury. Ph.D. Drexel University.
- Schiesher, D. (2004). Differentiating memory lateralization in temporal lobectomy patients: Comparison of the material-specific and familiarity-novelty hypotheses. Ph.D. Drexel University.
- Brannecki, S. (2003). Guided imagery as a pain-management technique in children with Sickle Cell Disease. PhD, Drexel University.
- Covassin, T. (2003). Effects of gender and sport type on the recovery from sports-related concussions. Ph.D. Temple University.
- McClain, M. (2003). Litigation status as a predictor of memory test score profiles. PhD, Drexel Univ.
- Welch, T. (2002). Antiepileptic drug outcomes following head injury. PhD, Drexel University.
- Hillary, F. (2000). Analysis of motor vehicle collisions factors accounting for location of lesion, brain injury severity and patient outcome. PhD, Drexel University.
- Zabel, T. (2000). Functional brain imaging using nIRS and Olfaction. PhD, Drexel University.
- Gardner, W. (1999). The Effect of behavioral, Personality and Emotional Changes after Brain Injury on Caregiver Relationships. PhD, Drexel University.
- Giovanetti, T. (1999). Errors of action in dementia. PhD, Drexel University.
- Ledakis, G. (1999). Factor analytic models of the Mattis Dementia Rating Scale in dementia of the Alzheimer's type and vascular dementia patients. PhD, Drexel University.

Graduate Student Development: External M.S. Committees:

- Tinker, J. (2008). Relationship between reported visual disturbance and neuropsychological testing following sports-related concussion in collegiate athletes. M.S. Drexel University.
- Lowry, J. (2002). The relationship of verbal learning patterns to employability following traumatic brain injury. MS, Drexel University.
- Freeman, R. (1999). Visuoconstructional abilities in dementia. M.S. Drexel University.
- Hillary, F. (1997). Seatbelts affect location of brain injury. M.S. Drexel University.