

CURRICULUM VITAE
Jason M. Chein

B050 Weiss Hall
1701 N. 13th Street
Temple University
Philadelphia, PA 19122-6085

Telephone: (215) 204-7321
Fax: (215) 204-5539
E-mail: jchein@temple.edu
URL: <http://www.temple.edu/tunl>

Present Position

- 2018- Professor, Department of Psychology
Temple University, Philadelphia, PA
- 2015- Director, Temple University Brain Research and Imaging Center
Temple University, Philadelphia, PA

Previous Positions:

- 2012-2018 Associate Professor, Department of Psychology
Temple University, Philadelphia, PA
- 2006-2012 Assistant Professor, Department of Psychology
Temple University, Philadelphia, PA
- 2006-2013 Visiting Researcher, Center for the Study of Brain, Mind, & Behavior
Princeton University, Princeton, NJ
- 2004-2005 Postdoctoral Fellow, Center for the Study of Brain, Mind, & Behavior
Princeton University, Princeton, NJ
- 2002 Adjunct Faculty Member, Department of Biology
Chatham College, Pittsburgh, PA

Academic History:

- 2001-2004 Univ. of Pittsburgh, Pittsburgh, PA
Ph.D., Cognitive Psychology
Center for the Neural Basis of Cognition (Carnegie Mellon Univ./ Univ. of Pittsburgh)
Dissertation: *Evaluating alternative models of working memory with neuroimaging*
- 1997-2001 University of Pittsburgh, Pittsburgh, PA
M.S., Cognitive Psychology
Center for the Neural Basis of Cognition (Carnegie Mellon Univ./ Univ. of Pittsburgh)
Thesis: *Evidence of a domain general learning network: An fMRI investigation with verbal and nonverbal paired-associates*
- 1992-1997 Temple University, Philadelphia, PA
B.A., (Summa Cum Laude)

Majors in Psychology & Computer Science, minor in Cognitive Neuroscience

Fellowships, Awards, and Honors:

2014 Lindback Award for Distinguished Teaching
2010 Temple University Study Leave
2008 Temple University College of Liberal Arts Travel Award
2001 Tim Post Award for Research Excellence (University of Pittsburgh)
2001 Temple University Alumni Gallery of Success (Temple University)
2000 Trainee Travel Award, Organization for Human Brain Mapping
1998 Center for the Neural Basis of Cognition Fellowship (National Science Foundation)
1998 National Science Foundation Graduate Student Fellowship, Honorable Mention
1997 College of Arts & Sciences Graduation Ceremony Speaker (Temple University)
1997 President's Scholar (Temple University)
1997 Phi Beta Kappa National Honor Society
1997 General Alumni Award for Academic Achievement (Temple University)
1997 Clifford M. Klinger Scholarship for Outstanding Work In Psychology (Temple University)
1996 Jerry Zaslow Award for Achievement in Academics and Service (Temple University)

Professional Activities:

Associate Editor for *Cognitive Affective & Behavioral Neuroscience*, Springer Press (2014-2020)

Member, Institute of Digital Media and Child Development (2015-present)

Co-author of Amicus Brief to the United States Supreme Court in the case of *Wardlow v. Texas* (2020)

Network Scholar, MacArthur Foundation Research Network on Law & Neuroscience (2013-2017)

Communications Officer, Flux International Congress for Integrative Developmental Cognitive Neuroscience (2014-2016)

Ad Hoc Study Section Member, NSF Social, Behavioral and Economic Sciences Directorate Postdoctoral Research Fellowships (SPRF)

Ad Hoc Study Section Member, NIH Exceptional Unconventional Research Enabling Knowledge Acceleration (EUREKA) for Neuroscience and Disorders of the Nervous System

Psychology in the Public Interest, Editor Search Committee (2018)

Abstract Reviewer for the *Society for Research in Child Development Biennial Conference* (2017), *Flux Congress for Developmental Cognitive Neuroscience* (2019), APA Technology Mind & Society (2021)

Ad-hoc Journal Reviews: Aging Neuropsychology & Cognition, Cognitive Brain Research, Cerebral Cortex, Cortex, Current Biology, Current Directions in Psychological Science, Developmental Cognitive Neuroscience, Developmental Review, eLife, European Journal of Cognitive Psychology, Frontiers in Neuroscience, Hormones & Behavior, Human Brain Mapping, Journal of the American Medical Association, Journal of Cognitive Enhancement, Journal of Cognitive Neuroscience, Journal of Cognitive Psychology, Journal of Experimental Psychology: Applied, Journal of Experimental Psychology: Learning, Memory, & Cognition; Journal of Intelligence, Journal of

Memory and Applied Cognition; Journal of Neuropsychology; Journal of Research on Adolescence; Nature Neuroscience, Neuroimage, Neuropsychologia, PLOS, Psychological Review, Psychological Science, Psychonomic Bulletin and Review, Social Cognitive & Affective Neuroscience, Trends in Cognitive Science

Current and Previous Society Memberships: Psychonomic Society, Flux Society for Integrative Developmental Cognitive Neuroscience, American Psychology Society, Cognitive Neuroscience Society, Society for Neuroscience, Organization for Human Brain Mapping

Active Research Support

NIH R01 HD098097 (PI: **Chein**, \$1,938,224) 09/01/2021-08/31/2026
Origins and Outcomes of Smartphone and Social Media Habits Across Development
Role: Principal Investigator

PA Dept of Health (PACURE) (PI: Fossati, \$3,822,700) 07/15/2020-06/30/2024
Vascular contributions to mechanisms and biomarkers of Alzheimer's disease
Role: Co-Investigator

NIH R01 MH109520 (PI: Cole, \$1,250,000) 02/01/2016-1/31/2021
Brain Network Mechanisms of Instructed Learning
Role: Collaborator/Consultant

NIH R21 R21DA043568 (PI: Murty, \$408,521) 06/01/2019-05/31/2021
Influence of reward on memory consolidation in adults and adolescence
Role: Co-Investigator

NIH R01 R01AA024433 (PI: Hicks, \$2,416,589) 7/01/2017-6/30/2022
Developmental and peer effects on the neurobiology of cognitive control and reward processes
Role: Co-Investigator

NIH R01 MH107495-01 (PI: Olino, \$3,211,838) 4/1/2016-1/31/2022
Developmental changes in reward responsiveness: Associations with depression risk markers
Role: Co-Investigator

Past Research Support

NIH R03 R03DA046733 (PI: Smith, \$228,736) 05/01/2019 – 04/30/2020
Aberrant Reward Sensitivity: Mechanisms Underlying Substance Use
Role: Co-Investigator

TU Young Scholars Interdisciplinary Forum (PI: **Chein/Venkatraman**, \$5800) 5/1/2019-4/30/2020
Risky Choice After Described and Experienced Information
Role: Co-Principal Investigator

TU OVPR Targeted Grant Program (PI: **Chein/Venkatraman**, \$10,000) 3/1/2018-2/28/2020
Individual and age difference in the D-E gap
Role: Co-Principal Investigator

NSF BCS-1531616 (PI: **Chein**, \$2,371,484) 9/1/2015-8/31/2018
MRI: Acquisition of a 3-Tesla Magnetic Resonance Imaging Scanner for Human Brain Imaging
Role: Principal Investigator

Jason M. Chein, Ph.D.

NIH R01 AA020006 (PI: **Chein**, \$1,719,938) 2/10/2011-1/31/2017
Combined Effects of Alcohol and Peer Context on Youth Risk Taking
Role: Principal Investigator

NIH R01MH077908-06 (PI: Alloy, \$3,232,473) 8/01/2006-6/30/2018
Risk for Bipolar Disorder: Reward-related Brain Function & Social Rhythms
Role: Co-Investigator

TU Young Scholars Interdisciplinary Forum (PI: **Chein**/Venkatraman, \$2500) 5/1/2016-4/30/2017
Risky Behavior in Adolescents - Mechanisms and Policy Implications

NIH R21 DA031436 (PI: **Chein**, \$420,729) 5/1/2012-4/30/2015
Improving Adolescent Decision Making Through Cognitive Control Training
Role: Principal Investigator

ARMY/ MRMC: W81XWH-12-2-0124 (PI: Steinberg, \$529,147) 9/30/2012-9/29/2016
Group Influences on Young Adult Warfighters' Risk-Taking
Role: Co-Investigator

TU Young Scholars Interdisciplinary Forum (PI: **Chein**/Venkatraman, \$4000) 1/1/2014-12/31/2015
Risky Behavior in Adolescents - Mechanisms and Policy Implications

ONR N00014-11-1-0399 (subcontract PI: **Chein**, \$172,408) 6/1/2011-5/31/2014
Building Cognitive Brain Networks Through Intense Brain Fitness Training
Role: Principal Investigator (subcontract)

NSF SLC SBE-0541957 (PI: Newcombe, \$15,396,421) 9/23/2006-9/22/2016
Spatial Intelligence and Learning Center
Role: Co-Investigator

APA 290079 (PI: **Chein**, \$1000) 11/1/2011-10/31/2012
Influences of Task-Demands and Strategy on the Focus of Attention
Role: Principal Investigator

NIH R21 DA022546-01 (PI: Steinberg, \$999,315) 9/30/2006 - 8/31/2012
Peer Effects on the Neural and Behavioral Markers of Risk-Taking in Adolescence
Role: Co-Investigator

NIH R01 MH059256-06 (PI: Fiez, \$1,469,319) 6/1/2000 -12/31/2010
Articulatory/Phonological Processes in Working Memory
Role: Consultant

NSF IIS-0237921 (PI: Megalooikonomou, \$1,284,246) 9/1/2003 – 8/31/2008
Extracting Patterns from Medical Image Databases
Role: Co-Investigator

ARMY/Center for Advanced Study of Language (PI: Schneider, \$300,000) 9/1/2010-12/31/2011
Brain Fitness Training for Foreign Language Learning
Role: Consultant

Peer-Reviewed Publications:

(*Denotes student author, †denotes post-doctoral author)

*Samper, J, Morrison, A, & **Chein, JM.** (in press). Doubts about the role of rehearsal in the irrelevant speech effect. *Experimental Psychology*.

Damme, K., Alloy, L., Kelley, N., Carroll, A., Young, C., **Chein, J.**, et al. (in press). Risk for Bipolar Spectrum Disorders is Associated with Sex-Specific Increases in Gray Matter Volume in the Medial Orbitofrontal Cortex and Nucleus Accumbens. *JCPP Advances*.

Bart C, Nusslock R, Ng T, Titone, M, Carroll A, Damme K, Young B, Armstrong C, **Chein J**, Alloy L. (in press). Decreased Reward-Related Brain Function Predicts Substance Use Frequency, Problems, and Diagnoses. *Journal of Abnormal Psychology*.

*Rosenbaum, G., Venkatraman, V., Steinberg, L., **Chein, J.** (August, 2021). Do adolescents always take more risks than adults? A within-subjects developmental study of context effects on decision making and processing. *PLOS One*.

*Sazhin, D., Frazier, A., Haynes, C., Johnston, C., Ka-Yi Chat, I., Dennison, J., Bart, C., McCloskey, M., **Chein, J.**, Fareri, D., Alloy, L., Jarcho, J., Smith, DV. (Oct, 2020). The Role of Social Reward and Corticostriatal Connectivity in Substance Use. *Journal of Psychiatry and Brain Science*, 5 e200024.

*Damme, K., Alloy, L., *Young, C., *Kelley, N., **Chein, J.**, *Ng, T., *Titone, M., *Black, C., Nusslock, R. (August, 2020). Amygdala subnuclei volume in bipolar spectrum disorders: Insights from diffusion-based subsegmentation and a high-risk design. *Human Brain Mapping*, 41(12), 3358-3369

*Silva, K., **Chein, J.**, & Steinberg, L. (January, 2020). The influence of romantic partners on male risk-taking. *Journal of Social and Personal Relationships*. Advance online publication. DOI: 10.1177/0265407519899712

†Sherman, L., *Smith, A., *Rosenbaum, G., *Botdorf, M., *Patianakos, J., McCloskey, M., Steinberg, L., & **Chein, J.** (August, 2019). The Interactive Effects of Peers and Alcohol on Functional Brain Connectivity in Young Adults. *Neuroimage*, 197, 264-272.

*Wilmer, H.H., *Hampton, W., Olino, T., Olson, I., & Chein, J.M. (2019) Wired to be connected? Links Between Mobile Technology Engagement, Intertemporal Preference, and Frontostriatal White Matter Connectivity. *Social Cognitive Affective Neuroscience*, 14(4), 367-379.

Green, CS, Bavelier D, Kramer, AF, Vinogradov S, Ansorge, U, Ball, KK, Bingel, U, **Chein, JM**, et al. (2019). Improving Methodological Standards in Behavioral Interventions for Cognitive Enhancement. *Journal of Cognitive Enhancement*. 3(1), 2-29. DOI: 10.1007/s4146

*Icenogle, G., Steinberg, L., Duell, N., **Chein, J.** et al. (2019). Adolescents' Cognitive Capacity Reaches Adult Levels Prior to Their Psychosocial Maturity: Evidence for a "Maturity Gap" in a Multinational Sample. *Law & Human Behavior*. 43(1), 69 – 85.

†Sherman, LE; Steinberg, L., & **Chein, JM** (2018). Connecting Brain Responsivity and Real-World Risk-Taking: Strengths and Limitations of Current Methodological Approaches. *Developmental Cognitive Neuroscience*, 33, 27-41. DOI: 10.1016/j.dcn.2017.05.007

Duell, N., Icenogle, G., Silva, K., **Chein, J.**, Steinberg, L., Banich, M., et al. (2018). A Cross-Sectional Examination of Response Inhibition and Working Memory on the Stroop Task. *Cognitive Development*. 47, 19-31.

Breiner, K., Li, A., Cohen, A., Steinberg, L., Bonnie, R.J., Scott, E.S., Taylor-Thompson, K., Rudolph, M., **Chein, J.M.**, Richeson, J., Dellarco, D., Fair, D., Casey, B.J., & Galván, A. (2018). Combined effects of peer presence, social cues and rewards on cognitive control in adolescents. *Developmental Psychobiology*, 60(3), 292-302.

*Duell, N., Steinberg, L., *Icenogle, G., **Chein, J.**, et al., (2018). Age Patterns in Risk Taking Across the World. *Journal of Youth and Adolescence*, 47(5), 1052-1072.

*Smith, A., *Rosenbaum, G., *Botdorf, M., Steinberg, L., & **Chein, J.** (2018). Peers Influence Adolescent Reward Processing, But Not Response Inhibition. *Cognitive Affective Behavioral Neuroscience*, 18(2), 284-295. DOI 10.3758/s13415-018-0569-5

*Rosenbaum, G., Venkatraman, V., Steinberg, L., & **Chein, J.** (2018). The Influences of Described and Experienced Information on Adolescent Risky Decision-Making. *Developmental Review*, 47, 23-43. doi.org/10.1016/j.dr.2017.09.003

Steinberg, L., *Icenogle, G., †Shulman, E.P., *Breiner, K., **Chein, J.**, et al. (2018). Around the World, Adolescence is a Time of Heightened Reward Seeking and Immature Self-Regulation: Implications for Preventing Risky Behavior. *Developmental Science*, 21(2), e12532. DOI: 10.1111/desc.12532

*Rosenbaum, G., Botdorf, M.A., Steinberg, L., & **Chein, J.M.** (2017). Working Memory Training in Adolescents Decreases Laboratory Risk Taking in the Presence of Peers. *Journal of Cognitive Enhancement*, 1(4), 513-535.

*Wilmer, H.H., †Sherman, L.E., & **Chein, J.M.** (2017). Smartphones and Cognition: A review of research exploring the links between mobile technology habits and cognitive functioning. *Frontiers in Psychology*, 8, 605. DOI: 10.3389/fpsyg.2017.00605

*Icenogle, G., Steinberg, L., Olino, T., **Chein, J.**, †Shulman, et al. (2017). Puberty Predicts Approach but not Avoidance Behavior on the Iowa Gambling Task. *Child Development*, 88(5), s 1598–1614. DOI: 10.1111/cdev.12655

*Silva, K., **Chein, J.**, & Steinberg, L. (2017). Joint Effects of Peer Presence and Fatigue on Risk and Reward Processing in Late Adolescence. *Journal of Youth and Adolescence*, 46, 1878–1890. DOI 10.1007/s10964-017-0690-8

*Botdorf, M., *Rosenbaum, G., *Patrianakos, J., Steinberg, L., & **Chein, J.** (2017). Adolescent Risk-Taking is Predicted by Individual Differences in Cognitive Control over Emotional, but Not Non-Emotional, Response Conflict. *Cognition & Emotion*, 31(5), 972-979. DOI 10.1080/02699931.2016.1168285

*Rudolph, *Miranda-Dominguez, *Cohen, *Breiner, Steinberg, Bonnie, Scott, Taylor-Thompson, **Chein, J.M.**, *Fettich, Richeson, *Dellarco, Galván, Casey, & Fair (2017). At risk of being risky: the relationship between “brain age” under emotional states and risky behavior. *Developmental Cognitive Neuroscience*, 24, 93-106.

*Wilmer, H. & **Chein, J.** (2016). Mobile Technology Habits – Patterns of Association Among Device Usage, Intertemporal Preference, Impulse Control, and Reward Sensitivity. *Psychonomic Bulletin & Review*, 23(5), 1607-1614.

*Duell, N., Steinberg, L., **Chein, J.**, et al. (2016). Interaction of Reward Seeking and Self-Regulation in the Prediction of Risk Taking: A Cross-National Test of the Dual Systems Model. *Developmental Psychology*, 52(10), 1593-1605.

*Silva, K., †Shulman, E., **Chein, J.**, & Steinberg, L. (2016). Peers Increase Adolescents' Exploratory Behavior and Sensitivity to Positive and Negative Feedback. *Journal of Research on Adolescence* 26(4), 696-705.. doi: 10.1111/jora.12219

*Morrison, A.M., *Rosenbaum, G.R., Fair, D.A., & **Chein, J.M.** (2016). Variation in Strategy Use Across Measures of Verbal Working Memory. *Memory & Cognition*, 44, 922-936.

*Cohen, A., *Briener, K., Steinberg., L., et al. (2016). When Is an Adolescent an Adult? Assessing Cognitive Control in Emotional and Nonemotional Contexts. *Psychological Science*, 27(4), 549-562.

†Shulman, E., *Smith, A., *Silva, K., *Icenogle, G., *Duell, N., **Chein, J.**, & Steinberg, L. (2016). The Dual Systems Model: Review, Reappraisal, and Reaffirmation. *Developmental Cognitive Neuroscience*, 17, 103-117.

*Cohen, A., Dellarco, D., *Breiner, K., et al. (2016). The Impact of Emotional States on Cognitive Control Circuitry and Function. *Journal of Cognitive Neuroscience*, 28(3), 446-459. doi:10.1162/jocn_a_00906

*Silva, K., **Chein, J.M.**, & Steinberg, L. (2016). Adolescent Peer Groups Make More Prudent Decisions in the Presence of a Slightly Older Adult. *Psychological Science*. doi:10.1177/0956797615620379

†Shulman, E., Harden, P., **Chein, J.**, and Steinberg, L. (2015). Sex Differences in the Developmental Trajectories of Impulse Control and Sensation-Seeking from Early Adolescence to Early Adulthood. *Journal of Youth and Adolescence*, 44, 1-17. DOI 10.1007/s10964-014-0116-9

Steinberg, L., & **Chein, J. M.** (2015). Multiple accounts of adolescent impulsivity. *Proceedings of the National Academy of Sciences*, 112(29), 8807-8808.

*Smith, A., Steinberg, L., & **Chein, J.** (2015). Age Differences in the Impact of Peers on Adolescents' and Adults' Neural Response to Reward. *Developmental Cognitive Neuroscience*, 11, 75-82. doi:10.1016/j.dcn.2014.08.010

†Shulman, E. P., Harden, K. P., **Chein, J. M.** and Steinberg, L. (2014), The Development of Impulse Control and Sensation-Seeking in Adolescence: Independent or Interdependent Processes?. *Journal of Research on Adolescence*. doi: 10.1111/jora.12181

*Blacker, K., Curby, K., *Klobusicky, E., & **Chein, J.** (2014). The Effects of Action Video Game Training on Visual Working Memory. *Journal of Experimental Psychology: Human Perception and Performance*, 40(5),1992-2004. doi: 10.1037/a0037556

*Richmond, L., Wolk, D., **Chein, J.**, Olson, I. (2014). Transcranial Direct Current Stimulation (tDCS) Enhances Verbal Working Memory Performance Over Time and Near Transfer Outcomes. *Journal of Cognitive Neuroscience*, 26(11), 2443–2454.

*Smith, A., Steinberg, L., & **Chein, J.** (2014). The Role of the Anterior Insular Cortex in Adolescent Decision Making. *Developmental Neuroscience*, 2014; 36(3-4):196-209. doi: 10.1159/000358918

Smith, A., **Chein, J.**, & Steinberg, L. (2014). Peers increase adolescent risk taking even when the probabilities of negative outcomes are known. *Developmental Psychology*, 50(5),1564-8. doi: 10.1037/a0035696.

Morrison, A., Conway, A., & **Chein, J.** (2014). Primacy and Recency Effects as Indices of the Focus of Attention. *Frontiers in Human Neuroscience*, 24(8), 6. doi: 10.3389/fnhum.2014.00006

Logue, S. **Chein, J.**, Gould, T, Holliday, E., & Steinberg (2014). Adolescent mice, unlike adults, consume more alcohol in the presence of peers than alone. *Developmental Science*, 17(1), 79-85.

*Weigard, A., **Chein, J.**, *Smith, A., *Albert, D., & Steinberg, L. (2014). Effects of Anonymous Peer Observation on Adolescents' Preference for Immediate Rewards. *Developmental Science*, 17(1), 71-78.

Chein, J.M., & Weisberg, R.W. (2013). Working memory, insight, and restructuring in verbal problems: Analysis of compound remote associate problems. *Memory & Cognition*, doi:10.3758/s13421-013-0343-4

*Smith, A. **Chein, J.**, & Steinberg (2013). Impact of socio-emotional context, brain development, and pubertal maturation on adolescent decision-making. *Hormones and Behavior*, 64(2), 323-332.

*Strang, N., **Chein, J.** & Steinberg, L.(2013). The value of the dual systems model of adolescent risk-taking. *Frontiers in Human Neuroscience*. 7:223. doi:10.3389/fnhum.2013.00223

*Albert, D., **Chein, J.**, & Steinberg, L. (2013). Peer influences on adolescent neurocognition. *Current Directions in Psychological Science*, 22(2), 80-86.

*Morrison, A. & **Chein, J.M.** (2012). The controversy over Cogmed. *Journal of Applied Research in Memory and Cognition*. 1(3), 208–210.

Chein, J. & Schneider, W. (2012). The brain's learning and control architecture. *Current Directions in Psychological Science*. 21(2), 78-84.

*Eagan, D.E. & **Chein, J.M.**, (2012). Overlap of phonetic features as a determinant of the between-stream phonological similarity effect. *Journal of Experimental Psychology; Learning Memory & Cognition*, 38(2):473-81.

*Richmond, L., *Morrison, A., **Chein, J.**, & Olson, I. (2011). Complex working memory span training in older adults. *Psychology and Aging*, 26(4):813-22.

*O'Brien, L., *Albert, D., **Chein, J.M.**, & Steinberg, L. (2011). Adolescents prefer more immediate rewards when in the presence of their peers. *Journal of Research on Adolescence*, 21(4), 747-753.

Chein, J., *Albert, D., *O'Brien, L., *Uckert, K., & Steinberg, L. (2011). Peers influence adolescent risk-taking by heightening sensitivity to reward. *Developmental Science*, 14(2), F1-F10.

*Berryhill, M.E., **Chein, J.M.**, & Olson, I.R. (2011). At the intersection of attention and memory: the mechanistic role of the posterior parietal lobe in working memory. *Neuropsychologia*, 49(5), 1306-1315.

*Morrison, A.B. & **Chein, J.M.** (2011). Does working memory training work? The promise and challenges of enhancing cognition by training working memory. *Psychonomic Bulletin & Review*, 18(1), 46-60.

Chein, J.M., *Moore, A.B., & Conway, A.R.A. (2011). Domain general mechanisms of complex working memory span. *Neuroimage*, 54, 550-559.

Chein, J.M., Weisberg, R.W., *Streeter, N., & *Kwok, S. (2010). Working memory and insight in the 9-dot problem. *Memory & Cognition*, 38(7), 883-892.

Chein, J.M. & *Morrison, A.B. (2010). Expanding the mind's workspace: Training and transfer effects with a complex working memory span task. *Psychonomic Bulletin & Review*, 17(2), 193-199.

Chein, J.M., & Fiez, J.A. (2010). Evaluating models of working memory: fMRI and behavioral evidence on the effects of concurrent irrelevant information. *Journal of Experimental Psychology: General*, 139(1), 117-137.

Chein, J.M. & Schneider, W. (2005). Neuroimaging studies of practice-related change: fMRI and meta-analytic evidence of a domain-general control network for learning. *Cognitive Brain Research*, 25(3), 607-623.

Ravizza, S.M., Delgado, M.R., **Chein, J.M.**, Becker, J.T., & Fiez, J.A. (2004). Functional dissociations within the inferior parietal cortex in verbal working memory. *Neuroimage*, 22(2), 562-573.

Chein, J.M., Ravizza, S.M., & Fiez, J.A. (2003). Using neuroimaging to evaluate alternative models of working memory and their implications for language processing. *Journal of Neurolinguistics*, 16(4-5), 315-339.

Schneider, W. & **Chein, J.M.** (2003). Controlled and automatic processing: Behavior, theory, & biology. *Cognitive Science*, 27, 525-559.

Chein, J.M., Fissell, K., Jacobs, S., & Fiez, J.A. (2002). Functional heterogeneity within Broca's area during verbal working memory. *Physiology & Behavior*, 77, 635-639.

Chein, J.M. & Fiez, J.A. (2001). Dissociation of verbal working memory system components using a delayed serial recall task. *Cerebral Cortex*, 11(11), 1003-1014.

Books and Book Chapters:

Chiu, M. & **Chein, J.M.** (in press). Digital media and the developing brain, in the Handbook of Adolescent Digital Media Use and Mental Health. Mitch Prinstein, Jacqueline Nesi, and Eva Telzer (Eds.). Cambridge University Press, UK.

Jarcho, J. M., **Chein, J. M.**, Guyer, A. E., Sullivan, R. M., Van Wingerden, M., eds. (2020). Social and Non-Social Reward: Neural Mechanisms Implicated in reward processing across domains and contexts. Frontiers Media SA. doi: 10.3389/978-2-88963-942-7.

Chein, J., (2015). Peers and Adolescent Risk Taking, in *Emerging Trends in the Social and Behavioral Sciences*. Robert Scott and Stephen Kosslyn (eds.), Hoboken, NJ: John Wiley and Sons.

Moscovitch, M., **Chein, J.**, Talmi, D., & Cohn, M. (2007). Learning, Memory, & Knowledge. In *Cognition, Brain, & Consciousness*. B. Baars & N. Gage (Eds.). Elsevier Science, Amsterdam.

Chein, J.M., St. James, J.D., & Schneider, W. (2005). Working memory and fMRI. In *PsychMate: A Student Guide to Experimental Psychology*. J. St. James and W. Schneider (Eds.). PST, Pittsburgh.

Chein, J.M. & Schneider, W. (2003). Designing effective fMRI experiments. In *The Handbook of Neuropsychology*, Vol. 9. J. Grafman and I. Robertson (Eds.). Elsevier Science, Amsterdam.

Manuscripts under review and in revision:

*Haupt, M., *Weiss, S., *Chiu, M. Cuomo, R., **Chein, J.**, McKay, T. Profiles of Social Distance Compliance: Psychological and Situational Predictors of Risky Behavior during COVID-19

Manuscripts in preparation:

Chein, *Zaneski, & Chiu (in preparation). The links between digital media involvement and risk taking, exploration, reward seeking and impulse control.

*Botdorf, MA, *Rosenbaum, GM, & **Chein, JM** (in preparation). Multiple items in working memory flexibly guide attention in a visual search task.

*Samper, J., and **Chein, J.** (in preparation). Multiple items can be represented simultaneously in an enhanced attentional state in working memory: Evidence from a retro-cue paradigm under varied instructions.

Colloquia, conference presentations, and invited addresses:

Chiu & Chein (accepted for Nov, 2021). Executive function and smartphone use habits in young adults. Poster presentation at the annual meeting of the APA conference on Technology, Mind, & Society.

Tanriverdi, Benear, Metoki, Murty, Chein, & Olson (August, 2021). Awake coordinated reactivation predicts forgetting. Poster presented at the annual Context and Episodic Memory Symposium.

Brucato, Smith, Newcombe, & Chein (March, 2021). On the role of attention in spatial, cognitive, and affective perspective taking. Poster presented at the Cognitive Neuroscience Society Meeting (virtual).

Beard, Chein, & Venkatraman (October, 2020). Investigating the Neural Correlates of Risk Preference and Information Acquisition in the Description-Experience Gap. Poster presented at the annual meeting of the Society for Neuroeconomics.

Chein (August, 2020). Risky Decision-Making and Digital Media Habits. Invited panelist presentation at Digital Media and Developing Minds National Congress 2020 (virtual).

Chiu, Weiss, Chein (July, 2020). The Impact of Mobile Usage Patterns on Risk Taking Behavior. Poster presented at the Cognitive Science Society meeting, online.

Knotek, Chiu, Weiss, Chein (April, 2020). Normative Smartphone Use, Cognitive Functioning & Risk Taking. Symposium for Undergraduate Research and Creativity (SURC) Online.

Beard, E.C., Rosenbaum, G., Zaneski, L., Chein, J., Venkatraman, V. (2019, November). *Influence of Presentation Format and Problem Domain in Risky Decision Making*. Poster presented at the 2019 Society for Judgement and Decision Making Conference. Montreal, Québec, Canada.

Bart, Nusslock, Ng, Titone, Carroll, Damme, Young, Armstrong, Chein, Alloy (2019, October). Decreased reward-related brain function to monetary rewards predicts shorter time to substance use disorder occurrence. Poster presented at the annual meeting of the Society for Neuroscience, Chicago.

Zaneski & Chein (Feb, 2019). Exploratory behavior in foraging task links real world risk-taking & media use. Poster presented at the annual meeting of the Eastern Psychological Association, Montreal.

Invited Panelist (October, 2018). The Relationship Between Cognition and Media Behavior. Digital Media and Developing Minds National Congress, Cold Spring Harbor, NY.

Samper & Chein (October, 2018). The Role of Rehearsal in the Irrelevant Sound Effect. Presentation at the 59th Annual Meeting of the Psychonomic Society, New Orleans.

Sherman, Rosenbaum, Smith, Botdorf, Fettich, Patrianakos, Strang, Steinberg, & Chein (April, 2018). The interactive effects of peers and alcohol on decision making and functional brain connectivity in late adolescence. Poster presented at the 16th annual meeting of the Society for Research in Adolescence, Minneapolis.

Nielsen, Fettich, Divers, Chein, Alloy, & Olino. (April, 2018). Gender Differences in Associations between Trajectories of Depressive Symptoms and Cortical Thickness in Adolescence. Poster presented at the 16th annual meeting of the Society for Research in Adolescence, Minneapolis.

Hampton, Wilmer, Olson, Olino, & Chein (October, 2017). White matter predicts mobile phone use and impulsive decision making. Symposium presentation at the annual meeting of the Society for Neuroeconomics, Toronto.

Sherman, Rosenbaum, Smith, Botdorf, Fettich, Patrianakos, Strang, Steinberg, & Chein (September, 2017). Interactive effects of alcohol consumption and peer presence on connectivity between the nucleus accumbens and the response inhibition. Poster presented at the annual meeting of the Flux International Congress, Portland.

Rosenbaum, Venkatraman, Steinberg, & Chein (September, 2017). Adolescents and adults learn differently from description and experience. Poster presented at the annual meeting of the Flux International Congress, Portland.

Alloy et al., (September, 2017). Blunted Neural Reward Responsiveness Predicts Prospective Depressive Episodes. Abstract presented at the annual meeting of the Society for Research in Psychopathology.

Chen EY, Olson I, **Chein J.**, McCloskey M.S., Edwards M.A., Mohamed, F.B., Hoge, W.S., Obradović Z., Olino, T.M. (June, 2017). An fMRI taste task as a test of long-term clinically significant weight loss. Abstract accepted for the Organization for Human Brain Mapping, Vancouver, Canada.

Chen EY, Foster, G.D., Mohamed, F.B., Conklin, C.J., Hoge, W.S., Olson, I.R., **Chein, J.**, McCloskey, M.S., Obradović Z., Olino, T. (May, 2017). Can baseline resting state functional connectivity classify clinically significant weight loss 3 and 15 months later? Abstract accepted to the Association for Psychological Science, Boston.

Invited Symposium (March, 2017). Decision, Reward, & Social Processing in Adolescent Brain Development. Symposium presentation at the Annual Meeting of the Cognitive Neuroscience Society. San Francisco.

Chein, J. (January, 2017). The adolescent brain: Opportunity & Vulnerability. Invited Address, Sylvius Lecture, Leiden Institute for Brain and Cognition. Leiden, Netherlands.

Rosenbaum, G.M., Chein, J.M., Steinberg, L., & Venkatraman, V. (November, 2016) Neurophysiological insights into the description-experience gap in adolescents. Poster presented at *Society for Judgment and Decision Making*, Boston, MA.

Rosenbaum, G.M., Botdorf, M.A., Sherman, L.E., Smith, A.R., Fettich, K., Patrianakos, J.L., Strang, N., Steinberg, L. & Chein, J.M. (September, 2016) The behavioral and neural influences of alcohol and social context on risky choice. Poster presented at *Fourth Annual Flux Congress*, St. Louis, MO.

Silva, K., Patrianakos, J., Chein, J.M., & Steinberg, L. (May, 2016). Mental Fatigue Increases Risk-Taking and Reward-Seeking Behavior but Has No Effect on Young Males' Ability to Learn from Negative Outcomes. Poster presented at the annual meeting of the American Psychological Society, New York.

Damme, K., Nusslock, R., **Chein, J.**, Black, C., O'Garro-Moore, J. and Alloy L. (May, 2016). Individuals with Elevated Reward Sensitivity and a Bipolar Spectrum Diagnosis Display Reduced Cortical Thickness in the Medial Orbitofrontal Cortex. Presented at the Society of Biological Psychiatry Annual Meeting.

Duell, N., Icenogle, G., **Chein, J.**, Steinberg, L. (April, 2016). A Cross-Cultural Examination of the Dual Systems Model of Adolescent Risk Taking. Symposium presentation at the biennial meeting of the Society for Research on Adolescence, Baltimore.

Duell, N., Silva, K., Icenogle, G., Banich, M., Chein, J., Steinberg, L. (April, 2016). Influence of Working Memory on Stroop Performance: A Developmental Examination. Poster presentation at the biennial meeting of the Society for Research on Adolescence, Baltimore.

Silva, K., Steinberg, L., & Chein, J. (April, 2016). Improving Young Soldiers' Decision-Making by Changing the Age Mix of Combat Squads. Poster presentation at the biennial meeting of the Society for Research on Adolescence, Baltimore.

Silva, K., Shulman, E., **Chein, J.M.**, & Steinberg, L. (April, 2016). Peers Increase Adolescents' Exploratory Behavior and Sensitivity to Positive and Negative Feedback. Poster presentation at the biennial meeting of the Society for Research on Adolescence, Baltimore.

Rosenbaum, G., Botdorf, M., Patrianakos, J., Wilmer, H., Steinberg, L. & Chein, J. (March, 2016). Working memory training increases insula engagement in adolescents. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York.

Rosenbaum, G.M., Venkatraman, V., & Chein, J.M. (November, 2015). The Influences of Described and Experienced Information on Adolescent Risky Decision-Making. Poster presented at *Society for Judgment and Decision Making Conference*, Chicago, IL.

Invited Address. "Training Working Memory in the Plastic Brain." Getting Smart about Getting Smart Workshop. Ann Arbor Michigan. June, 2015.

Keynote Address, "Why adolescents take more risks when with peers than alone." SRCDC Peer Relations Pre-Conference (Biological and Contextual Influences). March, 2015.

Symposium Chair, Peer influence and risky decision-making: Insight from neuroimaging. Symposium at the Society for Research in Child Development Biennial Meeting, Philadelphia, PA, March 2015.

Smith, A. Rosenbaum, G. Steinberg, L., & Chein, J. (March, 2015). Increased engagement of reward-processing regions during peer observation reflects higher rates of risk-taking behaviors. Symposium presentation at Society for Research in Child Development Biennial Meeting, Philadelphia, PA.

Smith, A. Steinberg, L., & Chein, J. (2015, March). Age-related changes in cortical thickness of the anterior insula. Poster presented at Society for Research in Child Development Biennial Meeting, Philadelphia, PA.

Botdorf, M., Rosenbaum, G., Patrianakos, J., Steinberg, L., Chein, J. (2015, March). Gender Differences in Adolescent Cognitive Control in the Face of Emotional, but Not Non-Emotional, Stimuli. Poster presented at Society for Research in Child Development Biennial Meeting, Philadelphia, PA.

Rosenbaum, G., Botdorf, M., Steinberg, L. & Chein, J. (2015, March). Working Memory Training in Adolescents Decreases Laboratory Risk Taking in the Presence of Peers. Poster presented at Society for Research in Child Development Biennial Meeting, Philadelphia, PA.

Icenogle, G., Chein, J., & Steinberg, L. (2015, March). Adolescent decision making: Pubertal status and age differentially predict behavior on the Iowa Gambling Task. Poster presented at Society for Research in Child Development Biennial Meeting, Philadelphia, PA.

Icenogle, G., Shulman, E., Breiner, K., Chein, J., & Steinberg, L. (2015, March). Is the increase in reward-seeking during adolescence

Rosenbaum, Chein, & Venkatraman (November, 2014). Reliability, Robustness and Boundary Conditions of the Description-Experience Gap. Poster presented at the Annual Meeting of the Judgment and Decision Making Society.

Invited Presentation. Annual Eleanor Saffran Conference on Cognitive Neuroscience. September, 2014.

Invited Presentation. Office of Naval Research annual portfolio review, June, 2014.

Invited Panelist. Understanding the customer's sensory experience. Temple University Fox School of Business. June, 2014.

Koski, J., Smith, A., Chein, J., Steinberg, L., & Olson, I. (April, 2014). The Influence of Social Status on Peer Influence and Risky Decisions. Poster presented at the Annual meeting of the Society for Research on Adolescence, Austin.

Invited Presentation. How peers influence adolescent's decisions about substance use. Temple University Substance Use Consortium, "Substance Abuse in the 21st Century", April, 2014.

Rosenbaum, G.M. & Chein, J.M. (March, 2014). The Influence of Multiple Items in Working Memory on Visual Search. Poster presented at the annual meeting of the Eastern Psychological Society, Boston.

Botdorf, M.A., Rosenbaum, G.M. & Chein, J.M. (March, 2014). Using Emotional and Non-Emotional Go-Nogo Tasks to Understand Adolescent Cognitive Control. Poster presented at the annual meeting of the Eastern Psychological Society, Boston.

Invited Presentation. (Feb., 2014). The hunt for the phonological loop. Explorations of Phonological Representation, Speech Motor Programming, Strategy, and Attention in Verbal Working Memory. Moss Rehabilitation Center, Philadelphia.

Invited Address. (Feb. 2014). Expanding the mind's workspace. Invited address to the Empiricist League, Brooklyn, NY.

Wilmer, H., Blacker, K., Chein, J. (Nov, 2013). Comparative Effects of Two Distinct Cognitive Training Programs. Poster presented at the Annual Meeting of the Psychonomic Society, Toronto.

Blacker, K.J., Curby, K.M., Klubosicky, E., & Chein, J.M. (Nov, 2013). The effects of action video game training on visual short-term memory. Poster presented at Object Perception, Attention, and Memory annual meeting, Toronto.

Invited Address (September, 2013). On a joy ride with friends: Explorations of the effect of peers on adolescent decision making. First Annual Meeting of the Flux international Congress, Pittsburgh.

Smith, A.R., Steinberg, L., Chein, J. (September 2013). Peer Influence on the Receipt of Reward during Adolescence. First Annual Meeting of the Flux international Congress, Pittsburgh.

Weigard, A., Albert, D., Smith, A., **Chein, J.** & Steinberg, L. (April 2013) Effects of Peer Presence on Delay Discounting in Late Adolescents: Replication Using an Anonymous Peer Paradigm. Presented at the Biennial Meeting of the Society for Research in Child Development.

Invited Address. (May, 2013) Based on a true story: The science, and fiction, of working memory training. Learning Research and Development Center 50th Anniversary, Pittsburgh, PA.

Invited Presentation. Office of Naval Research annual portfolio review, June, 2013

Keynote Address. Peer influences on risk-taking among adolescents and young adults: Evidence from brain and behavior. Pennsylvania Liquor Control Board Annual Meeting, Harrisburg, April, 2013.

Smith, A.R. Steinberg, L. & Chein, J. (Nov 2012) Peer Influences on the Integration of Reward Valuation and Impulse Control Processes during Adolescence. Presentation at the Annual Meeting of the Society for Neuroscience, New Orleans.

Chein, J.M. (2012). Friends on the Brain. Presented at the 59th annual meeting of the American Academy of Child and Adolescent Psychiatry, San Francisco.

Phi Beta Kappa Induction Ceremony Keynote Speaker, May 2012.

Invited Presentation. Office of Naval Research annual portfolio review, June, 2012.

*Albert, D., Chein, J., *Smith, A., *Uckert, K., & Steinberg. (2012). The future is now: differences between adolescents and adults in the neural and behavioral markers of intertemporal choice evaluation. Presented at the annual meeting of the Cognitive Neuroscience Society.

*Morrison, A., Conway, A., & Chein, J. (2012). A behavioral and fmri investigation of the influences of taskdemand and strategy on the focus of attention. Presented at the annual meeting of the Cognitive Neuroscience Society.

Invited colloquium. Department of Psychology/Princeton Neuroimaging Institute, Princeton University, December, 2011.

*Smith, AR., Chein, JM, Uckert, K., Albert, D., & Steinberg, L. (2011). Developmental differences in reward processing in the presence of peers. Presented at the 41st annual meeting of the Society for Neuroscience, Washington, DC.

*Morrison, A., Conway, A., & **Chein, J.** (2011). Influences of Task-Demand and Strategy on the Focus of Attention. Presented at the 52nd annual meeting of the Psychonomic Society, Seattle.

Chein, J.M. (2011). Age dependence in near and far transfer from working memory training. Invited address at the First International Workshop on Cognitive and Working Memory Training. Center for Advanced Study of Language/University of Maryland, Hyattsville MD.

*Morrison, A. & **Chein, J.** (2011). Strategy use in working memory performance. Presented at inter-Science of Learning Centers (iSLC) Conference, Washington, DC.

*Albert, D.A., **Chein, J.M.**, Uckert, K., O'Brien, L, Steinberg, L. (2011). Task-Dependent Differences in the Influence of Peers on Adolescent Decision Making. Presentation given at the biennial meeting of the Society for Research in Child Development, Montreal.

*Morrison, A. & **Chein, J.** (2010). Strategy use in working memory tasks. Presented at the 51st annual meeting of the Psychonomic Society, St. Louis, MO.

Chein, J.M., *Villagomez, A., & *Morrison, A. (2010) Irrelevant speech effects without rehearsal. Presented at the annual meeting of the Eastern Psychological Society, NY.

Invited colloquium, Department of Psychology, Rutgers Newark, October 2010.

Invited symposium, NeuroMarketing Symposium, Fox School of Business, Temple University, March 2010.

Chein, J.M. (2009). Expanding the mind's workspace: Working memory training and its generalization to other cognitive skills. Presidential Symposium address given at the annual meeting of the Eastern Psychological Society, Pittsburgh, PA.

*Morrison, A.B., *Fitzhugh, S., Shipley, T., Newcombe, N., & **Chein, J.M.** (2009). Spatial training: Converging on mechanism. Presented at the annual meeting of the American Educational Research Association. San Diego, CA.

Chein, J., DiSorbo, A., Uckert, K., Eagan, D.E., & Steinberg, L. (2009). Neural Markers of a Peer Influence on Adolescent Risk Taking. Presentation given at the biennial meeting of the Society for Research in Child Development, Denver, CO.

Albert, D., O'Brien, L., DiSorbo, A., Uckert, K., Eagan, D.E., **Chein, J.**, & Steinberg, L. (2009). Peer influences on risk taking in young adulthood. Presented at the biennial meeting of the Society for Research in Child Development, Denver, CO.

Chein, J.M., Weisberg, R.W., Streeter, N., Kwok, S. (2009). Working memory and insight. Presented at the annual meeting of the Eastern Psychological Society, Pittsburgh, PA.

*DiSorbo, A., *Albert, D., *O'Brien, L., Steinberg, S., & **Chein, J.** (2008). Adolescent risk-taking: Socio-emotional neural system vulnerability to peer influence. Presented at the 38th annual meeting of the Society for Neuroscience, Washington, D.C.

*Morrison, A., Newcombe, N., & **Chein, J.** (2008). Training and transfer effects using a working memory complex span task. Presented at the 49th annual meeting of the Psychonomic Society, Chicago.

*Fitzhugh, S., Morrison, A., **Chein, J.**, Shipley, T., Newcombe, N. (2008). Training mental rotation: A comparison of training spatial skills and working memory. Presented at the 49th annual meeting of the Psychonomic Society, Chicago.

Chein, J.M. (2007). Peer effects on the neural and behavioral markers of adolescent risk-taking. Presented at the 54th annual meeting of the American Academy of Child and Adolescent Psychiatry, Boston.

Chein, J.M. & Conway, A. (2007). fMRI of complex working memory span tasks. Presented at the 48th annual meeting of the Psychonomic Society, Long Beach, CA.

Conway, A. & **Chein, J.M.** (2007). On the Structure of Working Memory. Published in special issue of *Neuroimage* for the 12th annual Human Brain Mapping conference, Chicago.

Guediche, S., **Chein, J.**, Fiez, J. (2005). Dissociating articulatory and phonemic contributions to the "phonological" similarity effect. *Journal of Cognitive Neuroscience*, Supplement, 142-142.

Lenartowicz, A., Detre, G., Polyn, S., **Chein, J.**, et al. (2005). Characterization of brain states during task-switching using a neural network classifier. Poster abstract presented at the 12th annual meeting of the Cognitive Neuroscience Society, New York.

Schneider, W., Hill, N., **Chein, J.**, McHugo M., Cole, M. (2004). Systems supporting attention, decision-making, learning, & skilled performance. Presented at the 45th annual meeting of the Psychonomic Society, Minneapolis, MN.

Chein, J.M. & Fiez, J.A. (2004). Anatomical and temporal dissociations of articulatory suppression, irrelevant speech, and irrelevant non-speech effects in working memory. Poster abstract presented at the 11th annual meeting of the Cognitive Neuroscience Society, San Francisco.

Invited presentation, Neuroimaging and Prefrontal Function. Princeton University, March 2004

Schneider, W. & **Chein, J.** (2003). Cortical network support for control processing and the development of automaticity. Published in the special issue of *Neuroimage* for the 9th annual Human Brain Mapping conference, New York.

Schneider, W., **Chein, J.**, & McHugo, M. (2003). CAP3: A Model of Automatic/Controlled Processing in the Brain. Presented at the 44th annual meeting of the Psychonomic Society, Vancouver, BC.

Chein, J. & Schneider, W. (2003). An fMRI investigation of the role of domain-general cognitive resources in the transition from controlled to automatic processing. Poster abstract presented at the 10th annual meeting of the Cognitive Neuroscience Society, New York.

Schneider, W. & **Chein, J.** (2002). Automaticity and Domain-General Learning in Cortical Networks. Presented at the 43rd annual meeting of the Psychonomic Society, Kansas City.

Donavos, D.K., **Chein, J.M.**, & Fiez, J.A. (2002). Links between verbal working memory, concurrent articulation effects, and the cerebellum: Converging FMRI and behavioral studies. Poster abstract presented at the 9th annual meeting of the Cognitive Neuroscience Society, San Francisco.

Ravizza, S.M., Becker, J.T., Delgado, M.R., **Chein, J.M.**, & Fiez, J.A. (2002). Contribution of the inferior parietal cortex to verbal working memory. Poster abstract presented at the 10th annual meeting of the Cognitive Neuroscience Society, San Francisco.

Invited presentation, Effective fMRI Design. Presentation at the *Pittsburgh Functional Imaging Workshop*. Pittsburgh, PA, June 2001, 2002.

Drobyshevsky, A., Baumann, S., Ruth, R., **Chein, J.**, & Schneider, W. (2002). Normative data from an FMRI cognitive task battery. Published in the special issue of *Neuroimage* for the 8th annual Human Brain Mapping conference, Sendai, Japan.

Chein, J.M., Fissell, K., Jacobs, S., & Fiez, J.A. (2001). Functionally distinct subdivisions within Broca's area during verbal working memory: Results from a novel method for meta-analysis of neuroimaging studies. Published abstracts of the 31st annual meeting of the Society for Neuroscience, San Diego.

Schneider, W. & **Chein, J.** (2001). Using an fMRI task battery to rapidly produce functional markers. Published in special issue of *Neuroimage* for the 7th annual Human Brain Mapping conference, Brighton, England.

Chein, J. & Schneider, W. (2001). Corresponding learning-related changes in brain activity associated with verbal and nonverbal versions of a paired-associate task. Poster abstract presented at the 8th annual meeting of the Cognitive Neuroscience Society, New York.

Wheeler, E.Z., **Chein, J.M.**, Schneider, W. (2001). Functional magnetic resonance imaging of the role of feedback in learning. Poster abstract presented at the 8th annual meeting of the Cognitive Neuroscience Society, New York.

Fiez, J.A., Liu, Y., Derby, L., **Chein, J.**, & Perfetti, C.A. (2001) Exploring domain-specific processes in working memory through manipulation of homophone status in the Chinese language. Poster abstract presented at the 8th annual meeting of the Cognitive Neuroscience Society, New York.

Chein, J. & Schneider, W. (2000). An fMRI investigation of a common learning network: A test with verbal and nonverbal paired associates. Published in the special issue of *Neuroimage* for the 6th annual Human Brain Mapping conference, San Antonio.

Chein, J.M. & Fiez, J.A. (2000). Differential Effects of Stimulus Manipulation in the N-back and Delayed Serial Recall Working Memory Tasks. Published in the special the issue of *Neuroimage* for the 6th annual Human Brain Mapping conference, San Antonio.

Chein, J.M. & Fiez, J.A. (1999). An fMRI study characterizing the neural basis of verbal working memory with a delayed serial recall task. Published abstracts of the 29th annual meeting of the Society for Neuroscience, Miami Beach.

Chein, J., Smith, T., & Schneider, W. (1999). Functional specialization in a domain independent learning network investigated with fMRI. Poster abstract presented at the 1999 annual meeting of the Cognitive Neuroscience Society, Washington DC.

MacDonald, A.W. III, Perlstein, W.M., **Chein, J.M.**, Fiez, J.A., Noll, D.C., & Carter, C.S. (1999). An fMRI study of individual differences in working memory capacity in the N-back task. Poster abstract presented at the 6th annual meeting of the Cognitive Neuroscience Society, Washington DC.

Chein, J.M., Noll, D.C., Cohen, J.D., Fissell, K., Nystrom, L.E., Sabb, F., & Fiez, J.A. (1998). An fMRI study of verbal working memory: Effects of length, lexicality, and phonological similarity. Published abstracts of the 28th annual meeting of the Society for Neuroscience, Los Angeles.

Schneider, W., **Chein, J.**, Smith, T., & Shrager, J. (1998). FMRI of domain general learning. Published abstracts of the 28th annual meeting of the Society for Neuroscience, Los Angeles.

Chein, J.M. (1997). The Interface Between Computer Science and Psychology. Invited lecture at the Southwest China Normal University, Chongqing, China.

University & Departmental Service:

Director, Temple University Behavioral Research & Imaging Center	2015-
Department of Psychology, Dept Reconfiguration Workgroup (Chair)	2021-
Department of Psychology, Faculty Awards Committee	2020-
Department of Psychology, Executive Committee	2019-
Department of Psychology, Personnel Committee	2018-
Department of Psychology, Brain & Cognitive Sciences Area Director	2016-2017
Department of Psychology, Graduate Committee	2016-2017
Department of Psychology, Neuroscience Committee	2016-2017
Department of Psychology, Fellowship Committee	2017
Department of Psychology Faculty Awards Committee	2014-15
Department of Psychology, Web & Technology Committee	2014-15
Department of Psychology, Cognitive Search Committee	2014, 2015
Department of Psychology Colloquium Committee	2012-13
Department of Psychology, Student Awards Committee	2012-13
Department of Psychology, Clinical Faculty Search Committee	2012
Department of Psychology Undergraduate Committee	2009-13
Department of Psychology Cognitive Neuroscience Search Committee	2008-09
Department of Psychology Library Committee	2007-08
Department of Psychology Space Committee	2007-08
College of Liberal Arts Convocation Ceremony Presenter	2021
College of Liberal Arts Merit Committee (Chair, 2019-2020)	2018-
College of Liberal Arts Commencement Speaker	2016
College of Liberal Arts Board of Visitors Faculty Research Presenter	2016
College of Liberal Arts Tenure Committee (Chair, 2016)	2013-16
College of Liberal Arts Awards Committee	2012-15
College of Liberal Arts Academic Technology Committee	2008-10

College of Liberal Arts Commencement Speaker	2016
College of Liberal Arts Board of Visitors Faculty Research Presenter	2016
College of Liberal Arts Tenure Committee (Chair, 2016)	2013-16
College of Liberal Arts Awards Committee	2012-15
College of Liberal Arts Academic Technology Committee	2008-10
University, Office of the Vice President for Research Peer Review	2020-Present
University, Information Technology Strategic Taskforce	2017
University, Temple Institute for Learning & Education Sciences	2012-Present
University, Research Neuroimaging Committee (Chair, 2010-present)	2009-2016
University, Provost Workgroup on HSC-Main Campus Collaboration	2013
University, Search Committee for Institutional Review Board Director	2011

Teaching and Mentorship:

Courses Taught at Temple University

PSY 8110

Topical Seminar in Cognition (graduate) *"Topical Seminar on Human Neuroimaging"*

HONORS/PSY 3921/3904

Honors Topical Seminar on Cognitive Enhancement (undergraduate) *"Rise of the Super Brains: A topical seminar on superior cognition and cognitive enhancement"*

HONORS/PSY 2901

Honors Cognitive Psychology (undergraduate)

PSY 2101

Foundations in Cognitive Psychology (undergraduate)

PSY 8310

Topical Seminar in Cognition (graduate) *"Topical Seminar on Human Cognitive and Affective Neuroimaging"*

PSY 708

Topical Seminar in Cognition (graduate) *"Psychological Neuroscience"*

PSY 8310

Topical Seminar in Cognition (graduate) *"Topical Seminar on Cognitive Enhancement"*

PSY 8312

Graduate Core in Cognitive Psychology (graduate)

PSY 8317

Graduate Core in Neuroscience (graduate)

FRSEM 001 (now University Seminar 1001)

Freshman Skills Seminar (Co-instructor, undergraduate)

Previous Teaching

2002 Psychology Research Methods Laboratory (University of Pittsburgh, undergraduate)

2002 Functional & Clinical Neuroanatomy (Chatham College, graduate)
2000 Systems Neuroanatomy (Teaching Fellow, Univ. of Pittsburgh, graduate)
1998 Introduction to Psychology (Teaching Assist., Univ. of Pittsburgh, undergraduate)

Undergraduate and Graduate Mentorship

Undergraduate Research and Teaching Mentorship

Undergraduate Diamond Peer Teacher Mentees: Krystal Edmead, Chelsea Helion, Lisa Johnson, Lauren Skelton.

Undergraduate CARAS and LAURA awardees: Erin Brown (CARAS), Alex Weigard (CARAS), Erin Knotek (LAURA), Olivia Bishop (LAURA, Spring 2021)

Psychology Honors Thesis Advisees: Jasmine Forde, Adrienne Villagomez, Alexander Weigard, Adam Magerman, Suwathna Reel, Marissa Rosenberg, Alex Shortall, Samantha Stella, Kaitlyn Uckert, Emily Hutz, Minoosh Pardakti, Laura Zaneski (Ayres), Paris Walker, Jenna Muhannad, Janea Johnson, Emily Brown, Kylie Mol

Independent and Collaborative Research Advisees: Jennifer Andrade, Paul Sharp, Jordan Allen, Jessica Smith, Michael Demers, Danielle Adinolfi, Kevin Henson, Jonathan (Fed) Anderson, Elizabeth P Atterbury, , Jordan Szenicer, Susan Braverman, Andrew Castagna, Sara Cote, Devin Fadelsak, Pauline Gepilano, Veronica Gould, , Ifraj Ibrahim-Allen, Kristen L Kiesow, Scarlett Sungeun Kim, , Josh Koehlein, Jemeda Lamar, Shari Leiblich, Wayne Mackey, Adriana Madina, Jeremy J Mancini, Alana McAlinn, Gabriel Nichols, Ryan Oliver, Djurdja Perich, Sarah Pilosi, John Suarez, Derek Smith, Rachel Smith, David Sommer, Marissa Kemperman, Sinead Walsh, Kylie Erb, Erin Knotek, Elizabeth Egan, Christopher Maldonado, Alina Spas, Grace Pinkstone, Ria Kazmi, Re-al Dupree, Sophia Sithya.

Minority Research, Externship, and Post-Baccalaureate Advisees: Kevin Henson (McNair Summer Scholar), Suwanthna Reel (SROP), Rachel Smith (SROP), Catherine Wright (Minority Summer Intern), Morgan Botdorf, Louise Craft (Cornell Externship), Adrienne Romer (NIH Externship), Danielle Eagan, Ifraj Ibrahim-Allen (SROP), Tatyana Matveeva, Jamie Patrianakos, Salena Binnig, Alexandra Jones, Katie Caufield

Graduate Thesis/Dissertation Adviser:

Dustin Albert (co-advisor, PhD. 2010), Naomi Streeter (MA 2010), Alexandra Morrison (Ph.D. 2012), Kara Blacker (PhD. 2013), Ashley Smith (Ph.D. 2015), Karla Fettich (Ph.D., 2016), Gail Rosenbaum (Ph.D. 2017), Harry Wilmer (Ph.D. 2017), Jamielyn Samper (current), Maria Brucato (current), Elizabeth Beard (current), Michelle Chiu (current), Busra Tanriverdi (current), Steven Martinez (current)

Doctoral Committee Service:

Anthony Dick (Reader, 2007)
Jennifer Davis (Core Member, 2007)
Patricia Walshaw (Reader, 2007)
Kristen Ratliff (Reader, 2007)
Jennifer Bubier (Reader, 2008)
Stacie Kovacs (Reader, 2008)
Michael Tobia (Chair, 2009)

Danielle Gulick (Core Member, 2009)
Richard Hass (Core Member, 2009)
Jonathan Raybuck (Core Member, 2009)
Justin Kenney (Core Member, 2010)
Tilbe Goksun (Reader, 2010)
Shannon Fitzhugh (Core Member, 2011)
Kuba Glazek (Core Member, 2011)

Alexandra Twyman (Core Member, 2011)
Dustin Albert (Chair, 2011)
Alexandra Morrison (Core Member, 2012)
Derek Wilkinson (Core Member, 2012)
Lorna Quandt (Reader, 2013)
Kara Blacker (Core Member, 2013)
Lauren Richmond (Core Member, 2013)
Amanda Morrison (Core Member, 2013)
Joni Saby (Core Member, 2013)
Laura Skipper (Core Member, 2013)
Kinari Atit (Core Member, 2014)
Jessica Collins (Core Member, 2014)
Elaine Boland (Reader, 2014)
Tabitha Wurster (Reader, 2014)
Kaitlyn Reiner (Lehigh University, External Reader, 2014)
Jessica Koski (Core Member, 2015)
Erica Holiday (Core Member, 2015)
Hannah Tehan (Australia Catholic University, 2015)

Denise LaBelle (Reader, 2015)
David Connor (Reader, 2015)
Jorien Van Hoorn (Leiden University, 2017)
Corinne Holmes (Core Member, 2017)
Karol Silva (Core Member, 2017)
Kylie Alm (Core Member, 2017)
Robert Cole (Core Member, 2017)
Elissa Hamlat (Reader, 2017)
Shanna Cooper (Core Member, 2017)
Emma Rhodes (Reader, 2018)
Zoe Ngo (Core member, 2019)
Natasha Duell (Core member, 2019)
Grace Icenogle (Core member, 2019)
Staci Weiss (Core member, 2020)
Anastasia Metoki (Core member, 2021)
Julia Case (Reader, April, 2021)
Haroon Popal (Core Member, Current)
Susan Benear (Core Member, Current)

Popular Media Coverage:

A Cosmic Idea: Inner solitude a frontier still worth exploring (March, 2021). Forum (Article by Maggie Jackson).

INSIGHT: Adolescent Brain Immaturity Makes Pending Execution Inappropriate (September, 2020). Bloomberg Law (Op-Ed by **Jason Chein**)

The US plans to execute a man for a crime he committed at 19. Scientists say the research on brain development makes that wrong (September, 2020). CNN News (Article by Harmmeet Kaur)

Five hacks for fighting Zoom fatigue (November, 2020). Temple Now (Article by Kim Fischer)

Should Billy Joe Wardlow Be Executed for a Crime Committed When He Was Eighteen? (June, 2020). The New Yorker (Article by Lincoln Caplan)

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