

CHELSEA C. HAYS

CONTACT INFORMATION:

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EDUCATION

San Diego State University/University of California San Diego Joint Doctoral Program
Doctoral candidate, Ph.D. in Clinical Psychology, Neuropsychology track (degree expected 2019)
Dissertation Chair: Christina E. Wierenga, Ph.D.
Dissertation Title: TBD

San Diego State University, San Diego, CA
Master of Science (M.S.) in Clinical Psychology August 2016
Thesis Title: Subjective Cognitive Decline Modifies the Relationship Between Cerebral Blood Flow and Memory Function in Cognitively Normal Older Adults.

University of California San Diego (UCSD) La Jolla, CA
Degree: B.S. June 2013, *Summa Cum Laude*
Major: Honors Program in Psychology
Honors Thesis: "Follow the Liar: The Effects of Adult Lies on Children's Honesty"

GRANTS AND FUNDING

- National Science Foundation (NSF) Graduate Research Fellowship, 2015-2020
- Glenn/AFAR Scholarship for Research in the Biology of Aging, 2016
- Eugene Cota-Robles Fellowship, UC San Diego, 2014-2018

AWARDS AND HONORS

- Norman Henry Anderson Outstanding Honors Thesis Award, UC San Diego 2013
- Graduated *summa cum laude*, UC San Diego 2011-2013
- Psychology Honors Program, UC San Diego, 2011-2013
- Dean's List, San Diego Mesa College, 2010
- Dean's List, San Diego Mesa College, 2009
- Dean's List, San Diego Mesa College, 2008

CLINICAL EXPERIENCE

2014-Current **Clinical practicum student for an outpatient diagnostic clinic**, UCSD Moores Cancer Center
Conducted comprehensive neuropsychological evaluations as part of a multidisciplinary brain tumor treatment team; conducted neuropsychological assessments of patients including chart

review, clinical interview, standardized test administration and scoring, interpretation and report writing.

Clinical Supervisor: Carrie McDonald, Ph.D.

- 2016-Current **Clinical practicum student in the PTSD clinic**, VA San Diego Healthcare System
Conduct intake interviews on a wide range of patient populations with a history of trauma; conduct individual and group therapy targeting PTSD; also, treat PTSD co-occurring with other disorders (mood, substance, etc.); receive training in Cognitive Processing Therapy (CPT), Prolonged Exposure (PE), and Skills Training for Affective and Interpersonal Regulation (STAIR) therapy.
Clinical Supervisor: Joanna Jacobus, Ph.D.
- 2015-2016 **Clinical practicum student in a community clinic**, San Diego State University
Conducted individual therapy with adults and children presenting with a wide variety of psychiatric disorders in a community clinic setting.
Clinic Supervisors: Nader Amir, Ph.D., Kristen Wells, Ph.D., Michael Taylor, Ph.D.

RESEARCH EXPERIENCE

- 2014-Current **National Science Foundation Graduate Research Fellowship**,
Mentor: Christina Wierenga, Ph.D.
- Duties: Collaborate with mentor on projects investigating cognitive and brain changes associated with pre-clinical Alzheimer's disease using fMRI, pulse wave velocity measurement, neuropsychological testing, physical activity measurement, genetic markers, and measurement of cerebrospinal fluid levels of amyloid-beta and tau proteins; operate fMRI scans; collect pulse wave velocity data; process fMRI data; perform data analysis using SPSS; independently prepare and co-author manuscripts and posters for conferences; contribute and give presentations at lab meetings; provide ongoing supervision to research assistants.
- 2013-2014 **Research Coordinator**, VA San Diego Healthcare System,
PI: Christina Wierenga, Ph.D.
- Duties: Operated fMRI scans and administered longitudinal neuropsychological and clinical batteries to health older adults to assess AD-related changes in the brain; safety and operator trained in administering fMRI; assisted with the processing of fMRI neuroimaging data; was responsible for all recruitment and phone screenings.
- 2012- 2013 **Research Coordinator**, VA San Diego Healthcare System,
PI: Elizabeth Twamley, Ph.D.
- Duties: Coordinated a multi-site study aimed at helping OEF/OIF veterans with cognitive complaints following mild-moderate traumatic brain injury using compensatory cognitive training; conducted comprehensive neuropsychological assessments; performed quantitative data analysis in SPSS; extracted and managed data within an archival TBI database; assisted with recruitment and screenings; independent preparation of manuscripts and posters; assisted co-investigators with preparation of manuscripts and posters.

2010- 2012 **Research Assistant**, UCSD Developmental Social and Cognitive Neuroscience Lab, Department of Psychology; PI: Leslie Carver, Ph.D.

Duties: Administer structured protocol for multiple event related potential (ERP) studies interested in the brain basis of cognitive and social developmental change, such as memory consolidation, joint attention and social referencing; performed data processing and statistical analysis of ERP data, performed quantitative data analysis in SPSS; assisted with recruitment and screenings; independent preparation of manuscripts and posters; assisted co-investigators with preparation of manuscripts and posters.

2011- 2012 **Research Assistant**, SMART Lab, UCSD School of Medicine, Department of Psychiatry, PI: Elizabeth Twamley, Ph.D.

Duties: Administered neuropsychological tests to individuals with schizophrenia; scored and managed neuropsychological and clinical data for a study aimed at cognitive rehabilitation for people with cognitive impairments due to severe mental illness.

TEACHING EXPERIENCE

Guest Lectures

Psychological Disorders in Childhood-Autism, UC San Diego, 2016
Social Psychology-Cognitive Dissonance, UC San Diego, 2016

AD HOC JOURNAL REVIEWER

Journal of Experimental Child Psychology

PROFESSIONAL COMMITTEES AND LEADERSHIP ROLES

SDSU/ UC San Diego Joint Doctoral Program in Clinical Psychology Selection Committee Member
American Psychological Association (graduate student affiliate and member of Divisions 12 and 40)
Association of Neuropsychology Students in Training (ANST)
Association for Psychological Science Member

PUBLICATIONS

Peer Reviewed Papers

1. **Hays, C.C.**, Zlatar, Z.Z., Wierenga, C.E. (2016). The Utility of Cerebral Blood Flow as a Biomarker of Preclinical Alzheimer's Disease. *Cellular and Molecular Neurobiology*, 36(2): 167-179.
2. Orff, H.J., **Hays, C.C.**, Twamley, E.W. (2016). Multivariate Assessment of Subjective and Objective Measures of Social and Family Satisfaction in Veterans with History of TBI. *JRRD*, 53(5): 541-550.

3. Zlatar, Z.Z., Bischoff-Grethe, A., **Hays, C.C.**, Liu, T.T., Meloy, M.J., Rissman, R.A., Bondi, M., Wierenga, C.E. (2016). Higher Brain Perfusion May Not Support Memory Functions in Cognitively Normal Carriers of the ApoE +4 Allele Compared to Non-Carriers. *Frontiers in Aging Neuroscience*, 8(151).
4. Jurick, S.M., Twamley, E.W., Crocker, L.D., **Hays, C.C.**, Orff, H.J., Golsban, S., Jak, A.J. (2016). Post-concussive Symptom Over-reporting and Neuropsychological Performance Validity in Iraq and Afghanistan Veterans with a History of Mild Traumatic Brain Injury. *Journal of Rehabilitation Research and Development*.
5. Wierenga, C.E., **Hays, C.C.**, & Zlatar, Z.Z. (2014). Cerebral blood flow measured by arterial spin labelling MRI as a preclinical marker of Alzheimer's disease. *Journal of Alzheimer's Disease*. 42(s4): S411-S419.
6. Orff, H.J., **Hays, C.C.**, Heldreth, A.A., Stein, M.B., & Twamley, E. W. (2013). Clinical Considerations in the Evaluation and Management of Patients Following Traumatic Brain Injury. *FOCUS: The Journal of Lifelong Learning in Psychiatry*, 11(3), 328-340.
7. **Hays, C.C.** & Carver, L.J. (2014). Follow the Liar: The Effects of Adult Lies on Children's Honesty. *Developmental Science*, doi: 10.1111/desc.12171

Manuscripts in Review

Hays, C.C., Zlatar, Z.Z., Campbell, L., Meloy, M.J., Wierenga, C.E. Subjective Cognitive Decline Modifies the Relationship Between Cerebral Blood Flow and Memory Function in Cognitively Normal Older Adults. *Journal of the International Neuropsychological Society*.

Twamley, E.W., **Hays, C.C.**, Seewald, P.M., Orff, H.J., Depp, C.A., Olsen, D.C., Jak, A.J. Neurocognition, Psychiatric Symptoms, and Homelessness among Veterans with a History of Traumatic Brain Injury.

Crocker, L.D., Jurick, S.M, **Hays, C.C.**, Twamley, E.W., Jak, A.J. The Role of Depression and Posttraumatic Stress Disorder Symptoms in Cognitive Functioning in Veterans with a History of Mild Traumatic Brain Injury.

Manuscripts in Preparation

Hays, C.C., Zlatar, Z.Z., Campbell, L., Meloy, M.J., Wierenga, C.E. Temporal Gradient During Famous Face Naming is Associated with Lower Cerebral Blood Flow in Cognitively Normal Older Adults.

Published Abstracts

Hays, C.C., Zlatar, Z.Z., Bischoff-Grethe, A., Campbell, L. Meloy, M.J, Galasko, D., Wierenga, C.E. (2016). The Relationship between Cerebral Blood Flow and Levels of Tau and Amyloid Beta in Healthy Normal Controls. *Journal of the International Neuropsychological Society*.

Hays, C.C., Zlatar, Z.Z., Meloy, M.J., Keller, A., Whitsel, N., Baron, K., Galasko, D., Shin, D., Wierenga, C.E. (2015) Lower Levels of CBF are Associated with Higher Ratio of Tau/Amyloid- β_{42} in Healthy Aging. *Journal of the International Neuropsychological Society.*

Hays, C.C., Olsen, D., Ma, S., Whitsel, N., Orff, H., Jak, A., Twamley, E.W. (2015) Predictors of Academic and Employment Status in Veterans with a History of Traumatic Brain Injury. *Journal of the International Neuropsychological Society.*

Hays, C.C., Orff, H.J., Jak, A.J, Twamley, E.W (2014). Cognitive Complaints in Veterans with TBI and their Relationship to Objective Measures of Cognition. *Journal of the International Neuropsychological Society.*

Wierenga, C.E., Dev, S.I., **Hays, C.C.,** & Shin, D.D (2014). Altered Brain Response to Object Naming in Alzheimer's Disease Risk: A Simultaneous BOLD fMRI and Arterial Spin Labeling Study. *Journal of the International Neuropsychological Society.*

Twamley, E.W., **Hays, C.C.,** Orff, H.J., Depp, C.A., Jak, A.J (2014). Neurocognition and Homelessness among OEF/OIF Veterans with Traumatic Brain Injury. *Journal of the International Neuropsychological Society.*

Jak, A., **Hays, C.C,** Orff, H.J., Schiehser, D., Twamley, E.W (2014). Depression Limits Post-Concussive Symptom Improvement in Veterans with a History of TBI. *Journal of the International Neuropsychological Society.*

Jurick, S. M., **Hays, C.,** Orff, H. J., Twamley, E.W., Jak, A. J (2014). Post-concussive Symptom Over-reporting in Iraq and Afghanistan Veterans. *Journal of the International Neuropsychological Society.*

Jurick, S.M., Colon, C., Orff, H.J., **Hays, C.,** Gregory, A., Twamley, E.W., Jak, A. (2013). Cognitive Profiles of Mild to Moderate Traumatic Brain Injury Iraq and Afghanistan Veterans. *Journal of the International Neuropsychological Society.*

POSTER PRESENTATIONS

Hays, C.C., Zlatar, Z.Z., Campbell, L., Meloy, M.J., Wierenga, C.E. (2017). Subjective Cognitive Decline Modifies the Relationship Between Cerebral Blood Flow and Memory Function in Cognitively Normal Older Adults. International Neuropsychological Society Annual Meeting, New Orleans, LA.

Hays, C.C., Zlatar, Z.Z., Campbell, L., Meloy, M.J., Wierenga, C.E. (2017). Relationship Between Pulse Wave Velocity, Cerebral Blood Flow, and Memory in Cognitively Normal Older Adults. International Neuropsychological Society Annual Meeting, New Orleans, LA.

Hays, C.C., Zlatar, Z.Z., Meloy, M.J., Keller, A., Whitsel, N., Baron, K., Galasko, D., Shin, D., Wierenga, C.E. (2015). Lower Levels of CBF are Associated with Higher Ratio of Tau/Amyloid- β_{42} in Healthy Aging. International Neuropsychological Society Annual Meeting, Denver, CO.

Hays, C.C., Orff, H.J., Jak, A.J, Twamley, E.W (2014). Cognitive Complaints in Veterans with TBI and their Relationship to Objective Measures of Cognition. International Neuropsychological Society Annual Meeting, Seattle, WA.

Hays, C.C. & Carver, L.J. (2013). The Behavioral and Brain Correlates of Lying to Children. Society for Research in Child Development, Seattle, WA.

Hays, C.C. & Carver, L.J. (2011). Follow the Liar: Does Lying to Children Cause them to Lie in Return? Cognitive Development Society Meeting, Philadelphia, PA.

Hays, C.C, Cosner, D., & Gibson, R. (2010) Perceive Restraint: Re-evaluating Hand Restriction in Lexical Retrieval. American Psychological Association Annual Convention, San Diego, CA.

REFERENCES

Christina Wierenga, Ph.D., Associate Professor of Psychiatry, University of California San Diego and Research Psychologist at the VA San Diego Healthcare System, La Jolla, CA.

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Elizabeth W. Twamley, Ph.D., Professor of Psychiatry, University of California San Diego, and Research Psychologist for the VA Center of Excellence for Stress and Mental Health, La Jolla, CA.

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