

Curriculum Vitae

Thomas M. Van Vleet, Ph.D.

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EDUCATION

Postdoctoral Fellow

**University of California, Berkeley &
Department of Veteran Affairs, Martinez VA**

September 2003 - present

Cognitive Neuroscience and Neuropsychology research emphasis

Ph.D.

**Northern Illinois University
Department of Psychology**

Completed August 2003

Dual Track: Clinical Psychology and Neuroscience & Behavior.

Dissertation Defended: August 2002

Predoctoral Clinical Internship

**University of California, Davis &
Department of Veteran Affairs, Martinez VA**

August 2002 – August 2003

Clinical Neuropsychology, Neurocognitive Rehabilitation & Therapy

Predoctoral Clinical Externship

University of Chicago

September 2000 – May 2001

Clinical Neuropsychology

B.A.

**Northern Illinois University
Department of Psychology**

Completed August 1992

Psychology/Chemistry, Neuroscience emphasis

RESEARCH TRAINING

Postdoctoral Research Fellow

**University of California, Berkeley &
Department of Veteran Affairs, Martinez VA**

September 2003- present

Postdoctoral Researcher

Primary Mentor: Lynn Robertson, Ph.D.

Secondary Mentor: Mark D'Esposito, M.D.

Predoctoral Neuropsychology Intern

**University of California, Davis &
Department of Veteran Affairs, Martinez VA**

August 2002 - August 2003

Neurocognitive rehabilitation based on clinical research intervention in brain-injured veterans. Ongoing longitudinal project in collaboration with Jeff Kixmiller, Ph.D.

Graduate Student Research Fellow

Northern Illinois University

August 1999 - August 2001

Graduate Student Researcher

Primary Mentor: James Corwin, Ph.D.

Secondary Mentor: Roger Reep, Ph.D.

GRANT SUPPORT / FUNDING

2006- 2009: Merit Review Entry Program Grant (MREP): Cross-modal Influence on Attention in Patients with Hemispatial Neglect (Total: \$452,600)

Principal Investigator: Thomas Van Vleet, Ph.D.

This is a grant to support research into cross-modal amelioration of hemispatial neglect.

2001-2002: Dissertation Completion Fellowship: Cortical-subcortical correlates of hemispatial neglect (Total: \$20,000)

Awarded 9 months of support as Principal Investigator on 'in-house' grant. (3 peer-reviewed publications followed from this grant award)

RESEARCH INTERESTS

My primary interests concern the role of cortical and cortical-subcortical circuits in mediating attention across space and time, and how such neural mechanisms are altered in

neurological disorders such as Hemispatial Neglect and Balint's syndrome. I have examined these processes at several levels, including analysis of underlying neural substrates in animals and humans, interactions with pharmacological agents in animals, effects of environment on recovery in animals, and the influence of cross-modal manipulations in humans. Current studies use functional neuroimaging of humans in cross-modal attention paradigms and psychophysical examination of cross-modal manipulations that ameliorate deficits in conscious awareness in patients with hemispatial neglect. Future research is aimed at understanding the mechanism(s) of functional recovery contributing to the development of effective, generalizable treatment interventions.

CLINICAL EXPERIENCE

Assessment:

Postdoctoral Clinical Neuropsychology Fellow

University of California, Davis &

Department of Veteran Affairs, Martinez VA

September 2003-present

Clinical Neuropsychology Resident in the VA's Mental Health Outpatient Clinic & Center for Rehabilitation and Extended Care (CREC) inpatient facility,

Supervisors: Donna Sorensen, Ph.D., Kevin Mallon, Ph.D., James Picano, Ph.D. & Jeff Kixmiller, Ph.D.

Predoctoral Clinical Neuropsychology Intern

University of California, Davis &

Department of Veteran Affairs, Martinez VA

August 2002 - August 2003

Clinical Neuropsychology Intern in the VA's Mental Health Outpatient Clinic & Center for Rehabilitation and Extended Care (CREC) inpatient facility

Supervisors: Donna Sorensen, Ph.D., Kevin Mallon, Ph.D. & Jeff Kixmiller, Ph.D.

Adult Neuropsychology Extern

Neuropsychological Services, Arlington Heights IL

July 2001 - July 2002

Neuropsychological Assessment

Supervisor: Frederick W. Bylsma, Ph.D.

Geriatric Neuropsychology Extern

University of Chicago Memory Disorders Clinic

September 2000 - May 2001

Neuropsychological Assessment

Supervisor: Frederick W. Bylsma, Ph.D.

Therapy:

Individual Therapist

Outpatient Mental Health Clinic, Martinez VA

September 2002- August 2003

Supervisors: Rick Ferm, Ph.D., Patrick Neer, Psy.D.

Individual Therapist

Time Limited Dynamic Psychotherapy (TLDP) Clinic, Martinez VA

September 2002- August 2003

Supervisor: Rick Ferm, Ph.D.

Group Therapist

Outpatient Mental Health Clinic, Martinez VA

September 2002-August 2003

Supervisor: Patrick Neer, Psy.D.

Individual Therapist

Anxiety Disorders Service, Northern Illinois University

August 2001- May 2002

Supervisor: David Valentiner, Ph.D.

Individual Therapist

Psychological Services Center, Northern Illinois University

May 2001-August 2002

Supervisors: Karen White, Ph.D., Steven Gold, Ph.D., Holly Orcutt, Ph.D.,
Thomas McCanne, Ph.D.

TEACHING EXPERIENCE

Course Director/Instructor, Brain and Behavior
Northern Illinois University
Fall & Spring Semester 1998 - 1999

Graduate Teaching Assistant, Physiological Psychology
Northern Illinois University
Spring Semester 1998
Supporting Professor: Gary Coover, Ph.D.

Graduate Teaching Assistant, Perception & Psychophysics
Northern Illinois University
Spring & Fall Semester 1997 - 1998
Supporting Professor: Ray Deitrichs, Ph.D.

PROFESSIONAL AFFILIATIONS

Cognitive Neuroscience Society, Member
Cognitive Science Association for Interdisciplinary Learning, Member
International Neuropsychology Society, Member
National Academy of Neuropsychology, Member
Society for Neuroscience, Member
American Psychological Association Division 40, Member

HONORS AND AWARDS

Member of Psi Chi Honor Society
Recipient of the Distinguished Master's Thesis Award, Department of Psychology,
Northern Illinois University, 1999-2000
Recipient of the Midwestern Association of Graduate Schools Distinguished Master's
Thesis Award, 1999-2000
Recipient of the Northern Illinois University Dissertation Completion Fellowship,
Northern Illinois University, 2001-2002,
9 months of full-time support
National Institutes of Health, Clinical Research Fellowship, 2004-2006

PEER REVIEWED PUBLICATIONS

Van Vleet, T.M. & Robertson, L.C. (in press). Cross-Modal Interactions in Time and Space: Auditory Influence on Visual Attention in Hemispatial Neglect. *Journal of Cognitive Neuroscience*

Van Vleet, T.M. & Robertson, L.C. (submitted). Auditory alerting attenuates the visual attentional blink.

Van Vleet, T.M. & Robertson, L.C. (submitted). Preattentive Processing of Features but Not Conjunctions: Evidence from Priming in Patients with Hemispatial Neglect.

Reep, R.L., Corwin, J.V., Cheatwood, J.L., **Van Vleet, T.M.**, Heilman, K.M., & Watson, R.T. (2004). A rodent model for investigating the neurobiology of contralateral neglect. *Cognitive and Behavioral Neurology*, *17* (4):191-4.

Van Vleet, T.M., Heldt, S.A., Corwin, J.V., & Reep, R.L. (2003). Infusion of apomorphine into the dorsocentral striatum produces acute drug-induced recovery from neglect produced by unilateral medial agranular cortex lesions in rats. *Behavioural Brain Research*, *143* (2), 147-157.

Van Vleet, T.M., Heldt, S.A., Pyter, B., Corwin, J.V., & Reep, R.L. (2003). Effects of light deprivation on recovery from neglect and extinction induced by unilateral lesions of the medial agranular cortex and dorsocentral striatum. *Behavioural Brain Research*, *138* (2), 165-178.

Van Vleet, T.M., Heldt, S.A., Guerrettaz, K.R., Corwin, J.V., & Reep, R.L. (2002). Unilateral destruction of the dorsocentral striatum in rats produces neglect but not extinction to bilateral simultaneous stimulation. *Behavioural Brain Research*, *136*, 375-387.

Van Vleet, T.M., Burcham, K.J., Corwin, J.V., & Reep, R.L. (2000). Unilateral destruction of the medial agranular cortical projection zone in the dorsocentral striatum produces severe neglect in rats. *Psychobiology*, *28* (1), 57-66.

Burcham, K.J., Corwin, J.V., & **Van Vleet, T. M.** (1998). Light deprivation produces behavioral recovery of function from multimodal neglect following unilateral posterior parietal cortex lesions in rats. *Behavioural Brain Research*, *90*, 187-197.

TALKS / PRESENTATIONS

Van Vleet, T.M. & Robertson, L.C. (2005). Priming and the role of Attention in Hemispatial Neglect. Poster presented at Society for Neuroscience annual meeting, Washington D.C., SFN Abstracts, 2005.

Van Vleet, T.M., Robertson, L.C. (2005). Cross-Modal Interactions in Time and Space: Auditory Influence on Visual Attention in Hemispatial Neglect. Poster presented at Cognitive Neuroscience Society annual meeting, New York, NY CNS Abstracts, 2005.

Van Vleet, T.M. (2004). Alerting the attentional blink: attention across space and time. Talk presented at the Cognitive Science Association for Interdisciplinary Learning Annual Meeting, Hood River, Oregon. CSAIL Abstracts, 2004.

Van Vleet, T.M. (May, 2004). A rodent model of neglect. Invited talk presented at the Basal Ganglia Research Group meeting, University of California, Berkeley.

Van Vleet, T.M. (January, 2004). Cross-modal associations in spatial attention: implications for rehabilitation of neglect. Invited talk presented at the Interdisciplinary Clinical Research Group meeting, Martinez VA.

Van Vleet, T.M., Esterman, M, & Robertson, L.C. (2004). Alerting the Attentional Blink: Effects of a Brief Auditory Tone on Visual Attentional Blink in Patients with Hemispatial Neglect. Poster presented at Society for Neuroscience annual meeting, San Diego, CA, SFN Abstracts, 2004.

Van Vleet, T.M. (2004). Effect of auditory stimulation on a visual conjunction search task in patients with hemispatial neglect. Poster presented at Cognitive Neuroscience Society annual meeting, San Francisco, CA. CNS Abstracts, 2004.

Van Vleet, T.M., Corwin, J.V., Reep, R.L. & Heldt, S. (2002). Rats with neglect produced by lesions of the dorsal central striatum do not demonstrate spontaneous recovery. Poster presented at the International Behavioral Neuroscience Society Meeting, Capri, Italy. IBNS Abstracts, 2002.

Van Vleet, T. M., Guerrettaz, K., Burcham, K. J., Corwin, J. V., & Reep, R. (2001). Effects of Light Deprivation on Neglect Induced by Unilateral Destruction of the Medial Agranular Cortical Projection Zone in the Dorsocentral Striatum in Rats. Poster presented at the Society for Neuroscience 31st Annual Meeting, San Diego, CA. SFN Abstracts, 2001.

Guerrettaz, K., **Van Vleet, T. M.**, Corwin, J. V., & Reep, R. (2001). Unilateral Destruction of the Dorsocentral Striatum in Rats Produces Neglect But Not Extinction to Bilateral Simultaneous Stimulation. Poster presented at the Society for Neuroscience 31st Annual Meeting, San Diego, CA. SFN Abstracts, 2001.

Van Vleet, T. M., Corwin, J. V., & Burcham, K. J. (1999). Infusion of apomorphine into the dorsal central striatum produces acute recovery from AGm-induced neglect in rats. Poster presented at the Society for Neuroscience 29th Annual Meeting, Miami Beach, FL. SFN Abstracts, 1999.

Burcham, K.J., Corwin, J.V., & **Van Vleet, T.M.** (1999). Effects of light deprivation on neglect induced by disconnection of medial agranular and posterior parietal cortex in rats. Poster presented at the Society for Neuroscience 29th Annual Meeting, Miami Beach, FL. SFN Abstracts, 1999.

Van Vleet, T.M., Reep, R.L., Corwin, J.V., & Burcham, K.J. (1998). Topographic organization of the thalamic connections of the rat medial agranular cortex. Poster presented at the Society for Neuroscience 28th Annual Meeting, Los Angeles, CA. SFN Abstracts, 1998.

Burcham, K.J., Reep, R.L., Corwin, J.V., & **Van Vleet, T.M.** (1998). Topographic organization of the striatal efferents of the rat medial agranular cortex. Poster presented at the Society for Neuroscience 28th Annual Meeting, Los Angeles, CA. SFN Abstracts, 1998.

Corwin, J.V., Burcham, K.J., Denedios, A., & **Van Vleet, T.M.** (1998). Apomorphine produces acute recovery from neglect following unilateral disconnection of medial agranular and posterior parietal cortex in rats. Poster presented at the Society for Neuroscience 28th Annual Meeting, Los Angeles, CA. SFN Abstracts, 1998.

Van Vleet, T.M., Corwin, J.V., Burcham, K.J., & Reep, R.L. (1997). Unilateral lesions of dorsal central striatum produce multimodal neglect in rats. Poster presented at the Society for Neuroscience 27th Annual Meeting, New Orleans, LA. SFN Abstracts, 1997.