

April 2007

Curriculum Vitae

**Nathan A. Gates, M.A.**

---

Department of Biopsychology, Unit 50

Neuropsychology Doctoral Program

New York State Psychiatric Institute

The Graduate Center and Queens College

1051 Riverside Drive

City University of New York

New York, NY 10032, USA

(917) 859-3288

[gatesna@pi.cpmc.columbia.edu](mailto:gatesna@pi.cpmc.columbia.edu)

## **EDUCATION**

The Graduate Center and Queens College of the City University of New York; New York, NY

*Ph.D. in Clinical Neuropsychology*; expected May, 2009

The Graduate Center and Queens College of the City University of New York; New York, NY

*Masters of Arts*; May, 2007

Advisors: Jürgen Kayser, Ph.D., Joan Borod, Ph.D.

Thesis: “Event-related brain potential (ERP) indices and behavioral measures of the emotional Stroop task among healthy adults.”

University of South Florida; Tampa, FL

*Bachelors of Arts in Psychology*; Spring, 2003

## **HONORS AND AWARDS**

2003 Magna Cum Laude

2002 PAR Scholarship for Excellence in Psychology Award

## **ASSOCIATION / MEMBERSHIPS**

2005-Present; American Psychological Association

2005-Present; American Psychological Association of Graduate Students

2004-Present; International Neuropsychological Society

2004-Present; National Psychologist Trainee Register

2004-Present; Society of Psychophysiological Research

## **CLINICAL EXPERIENCE**

**NYU Rusk Institute Brain Injury Day Treatment Program;** New York, NY

*Neuropsychological Rehabilitation Practicum;* January 2006 – February 2007

Supervisors: Yehuda Ben-Yishay, Ph.D., Mark Johnson, Ph.D.

*Testing Experience:* NYU Orienting Remedial Module (ORM), Cancellation Tests

*Clinical Experience:* Leading and Co-leading group therapy, Individual therapy

**Winthrop University Hospital;** Mineola, NY

*Neuropsychology Assessment Practicum;* June 2005 - December 2005

Supervisor: Nancy S. Foldi, Ph.D.

*Testing Experience:* Boston Diagnostic Aphasia Exam (BDAE), Boston—Rochester Neuropsychological Screening Test (BRNS), California Verbal Learning Test—Second Edition (CVLT—II), Cancellation tests, Clinical Dementia Rating Scale (CDR), Dementia Rating Scale (DRS), Geriatric Depression Scales, Wechsler Adult Intelligence Scale—Revised (WAIS-R), Wechsler Memory Scale—Third

Edition (WMS-III), Bender Visual Retention Test, Ray—Osterreith Complex Figure

*Clinical Experience:* Clinical interviews, Mini Mental Status Exam

## **RESEARCH EXPERIENCE**

**Department of Biopsychology New York State Psychiatric Institute;** New York, NY

*Research Assistant;* August 2003-Present

Supervisors: Gerard Bruder, Ph.D.; Jürgen Kayser, Ph.D.; Craig Tenke, Ph.D.

Assist in the collection, processing, and analysis of ERPs recorded from depressed, schizophrenic, and healthy adult populations. Acquire experience in utilizing cutting-edge methodological approaches to ERP data processing and analysis through the use of temporal and spatial principal component analysis on reference-free Laplacian waveforms.

**Department of Psychology, University of South Florida;** Tampa, FL

*Honors Thesis;* August 2002 - May 2003

Supervisor: Emanuel Donchin, Ph.D.

Investigation of the psychophysiological correlate to error monitoring known as the error related negativity (ERN) through ERP analysis of a laterally presented emotional Stroop task.

*Research Assistant;* June 2002 - May 2003

Supervisor: Emanuel Donchin, Ph.D.

Gained experience in the development of a computer-brain interface as a communication device for late-stage ALS patients, or individuals suffering from neurodegenerative disorders affecting the ability to communicate.

*Research Assistant*; June 2001 - May 2002

Supervisor: Cynthia Cimino, Ph.D.

Assisted in the collection and analysis of data from a study examining the effect of lateralized presentations of affectively charged word primes on subsequent recall and recognition among University students with normal and high levels of trait depression.

### **JOURNAL PUBLICATIONS**

Kayser, J., Tenke, C. E., Gates, N. A., Bruder, G. (submitted). Reference-independent ERP old/new effects of auditory and visual word recognition memory: joint extraction of stimulus- and response-locked neuronal generator patterns. *Psychophysiology*.

Kayser, J., Tenke, C.E., Gates, N.A., Kroppmann, C.J., Gil, R.B., Bruder, G.E. (2006). ERP/CSD Indices of impaired verbal working memory subprocesses in schizophrenia. *Psychophysiology*, 43(3), 237-252.

### **PEER-REVIEWED CONFERENCE PUBLICAIONS**

Gates, N. A., Kayser, J., Tenke, C. E. (2006). Looking for emotional interference in a Stroop-like paradigm: behavioral and event-related potential (ERP) finding. Presented at the 46th Annual Meeting of the Society for Psychophysiological Research (SPR), Vancouver, BC, Canada, October 26, 2006. (SRP 2006).

Kayser, J., Tenke, C. E., Gates, N. A., Kropppman, C. J., Sedoruk, J. P., Griggs, C. B., Stewart, J. W., Quitkin, F. M., & Bruder, G. E. (2005, September). Identifying generators of visual recognition memory (Old/New) effects in affective disorders: A principal component analysis (PCA) of Laplacian waveforms. Poster presented at the 45th annual meeting of the Society of Psychophysiological Research (SPR).

Kayser, J., Tenke, C. E., Gates, N. A., Kropppman, C. J., Gil, R. B., & Bruder, G. E. (2005, May). Verbal working memory (WM) in schizophrenia: Event-related brain potential (ERP) findings for the Word Serial Position test. Poster presented at the 60th annual meeting of the Society of Biological Psychiatry (SoBP).

Siders, C. A., Cimino, C. R., & Gates, N. (2003, February). Trait depression in the perception and memory of laterally presented emotional words. Paper accepted for presentation at the 31<sup>st</sup> annual meeting of the International Neuropsychological Society.

## **RESEARCH INTERESTS**

My interests focus on the neuropsychology of emotion and cognition. Specifically, I am interested in the neural circuitry underlying attention and emotion, and investigating relative hemispheric asymmetries among these domains. My current research focuses on the electrophysiological correlates of emotional interference on attentional control.

## **Technical Skills**

Programming languages: DOS Batch, SPSS, Borland Pascal, Matlab

Office: Excel, PowerPoint, Word

Web Programming and Design: HTML, PHP, Macromedia Flash, Macromedia Dreamweaver

Operating Systems: Windows, Mac OS X

## **REFERENCES**

Jurgen Kayser, Ph.D. (212) 543-5169

Gerard Bruder, Ph.D. (212) 543-5468

Nancy S. Foldi, Ph.D. (718) 997-3253

Yehudah Ben-Yishay, Ph.D. (212) 263-7156

Joan Borod, Ph.D. (718) 997-3217