

# NICOLE M. HILL

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## EDUCATION

Fall 2001 - present     **University of Pittsburgh**  
**Pre-doctoral student in Cognitive Neuroscience, Psychology Department**  
Advisor: Walter Schneider, Ph.D.

Currently investigating dual-task learning & performance, posterior parietal cortex function, and cortical control through behavioral testing and functional magnetic resonance imaging (fMRI).

**Pre-doctoral fellow in the Center for the Neural Basis of Cognition**

A joint graduate training program sponsored by Carnegie Mellon University and the University of Pittsburgh.

Summer 2001     **Summer Program in Neuroscience, Ethics and Survival (SPINES)**  
Marine Biological Laboratory, Woods Hole, MA

1994 - 1998     **University of Pennsylvania**  
**Bachelor of Arts in Psychology (May, 1998)**

## HONORS AND AWARDS

2002     FAS Minority Summer Research Award  
2001 - 2003     National Science Foundation Fellowship  
2001     APA Minority Fellowship Program in Neuroscience (declined)  
1997     Recipient of the Minority Travel Fellowship to attend the International Symposium on Olfaction and Taste in San Diego, July 7-13, 1997

## SERVICE AND TEACHING

Jan 2003 – Jun 2004     Cognitive Department Graduate Student Representative  
Jun 2003 – Jan 2004     CNBC Education Committee Student Representative  
Aug 2004 - present     Psychology Department Minority and International Students Affairs Committee  
June 29, 2004     Guest Lecturer for Psy 1470: Cognition and the Brain

## EXPERIENCE

1999 - Present     **University of California, Los Angeles, Psychology Department**  
Research Assistant to Tyrone D. Cannon, Ph.D.  
*See below.*

1997 - 1999

**University of Pennsylvania, Psychology Department**

Research Assistant to Tyrone D. Cannon, Ph.D.

The laboratory focus is the investigation of psychopathology, in particular schizophrenia, through neuroimaging and genetics. Duties include fMRI scanning and analysis, structural imaging, neuropsychological and cognitive testing, task development and programming, supervising student workers, and the development and maintenance of the lab web page. Trained to administer the SCID and the CVLT.

Research Assistant to John Trueswell, Ph.D.

The research focused on language processing strategies in children. Worked on project that examined the acquisition of referential constraints used in resolving temporary syntactic ambiguities. Study conducted using head mounted eye-tracking system. Duties included subject recruitment and testing, operating eye-tracking system, data analysis, and stimuli preparation.

1997 -1998

**University of Pennsylvania Undergraduate Research  
Psychology Department**

Advisors: Professor Martin E. P. Seligman, Ph.D. & John R. Z. Abela

The research projects focused on the development of hopelessness depression in a middle school and a college population. Duties included subject testing, data analysis, and scientific paper writing.

1996 - 1998

**Psychopathology Research Unit, Psychiatry Department  
University of Pennsylvania**

Research Assistant to Aaron T. Beck, MD

Supervised by Barbara Marinelli & Katherine Dahlsgaard

The research project focused on determining the predictors of suicide in an outpatient population. Duties included performing National Death Index searches for potential suicides, evaluating intake interviews for accuracy, attending Case Conferences conducted by Dr. Beck, making therapist folders, referencing the DSM-III-R and DSM-IV to check diagnosis codes, and data entry.

1992 - 1997

**Monell Chemical Senses Center**

Research Assistant to Susan Knasko, Ph.D.

The research projects focused on the effects of ambient order on human behavior. Duties include subject recruitment and testing, stimuli preparation, library research, and data entry. Conducted private study under the supervision of Dr. Knasko on the effects of ambient odor on the perception of reversible ambiguous figures.

Research Assistant to Kunio Yamazaki, Ph.D.

The research project focused on the olfactory recognition of genetic individuality. Duties included operating the Y-maze and olfactometer, ear numbering, animal care and feeding, and data summarization.

## **COMPUTER SKILLS**

PLATFORMS: Windows/DOS, Macintosh & UNIX  
SOFTWARE: BrainVoyager, E-Prime, Endnote, Matlab, SPSS, Microsoft Word, Excel, Access, Microsoft Internet Explorer, Adobe Photoshop, Adobe Illustrator.  
DATABASES: PsycInfo, MEDLINE, & LEXIS/NEXIS

## **CAREER OBJECTIVES:**

Future plans include a Ph.D. in Cognitive Neuroscience. Research interests include functional magnetic resonance imaging (fMRI), learning, attention, and executive control in humans.

## Presentations and Publications:

Andrusyna, T., Benz, B., Dickey, K., Donde, S., Elliott, W., Hill, N., Mackley, H., Rosenfeld, J., Spina, B., Trombly, C., & Whiteman, D. (1998, April). A Test of the Hopelessness Theory of Depression in Third and Seventh Grade Students. Poster session presented at the annual University of Pennsylvania Undergraduate Research Symposium, Philadelphia, PA.

Glahn, D.C., van Erp, T.G.M., Hill, N.M., Hasselgrove, J., & Cannon, T.D. (1999, June). Increasing spatial working memory requirements and individual difference: Effects on the spatial extent of activation in the DLPFC. Poster session presented at the 6<sup>th</sup> annual meeting of the Organization for Human Brain Mapping Conference on Functional Mapping of the Human Brain, San Antonio, TX.

Hill, N.M. (2004, December). Changes in neural activation related to dual-task practice: Evidence for a domain general learning network. Talk presented at the University of Pittsburgh Department of Psychology Cognitive Brown Bag Series.

Hill, N.M. (2004, November). Learning to dual-task: An fMRI study of practice related changes in neural activity. Talk presented at the Center for the Neural Basis of Cognition Brain Bag Student Colloquia Series.

Hill, N.M., & Schneider, W. (2004, April). Learning to dual-task: An fMRI study of practice related changes in neural activity. Poster session presented at the annual meeting of the Cognitive Neuroscience Society.

Hill, N.M. (2003, August). Learning to dual-task: Implications for dual processing models of attention. Talk presented at the 23<sup>rd</sup> Annual Pitt-CMU Psychology Student Symposium.

Hill, N.M. (2003, October). Learning to dual-task: Implications for dual processing models of attention. Talk presented at the University of Pittsburgh Department of Psychology Cognitive Brown Bag Series.

Trueswell, J.C., Sekerina, I., Hill, N.M., & Logrip, M.L. (1999). The kindergarten-path effect: studying on-line sentence processing in young children. *Cognition*, 73, 89-134.

A pdf copy of this article can be obtained through a first author search (Trueswell) at the following url: <http://www.cognition-online.com/>

Trueswell, J.C., Sekerina, I., Hill, N.M., & Logrip, M.L. (1999, November). The Kindergarten-Path Effect: Studying On-Line Sentence Processing in Young Children. Paper presented at the 40th Meeting of Psychonomics Society, Los Angeles, CA.

Trueswell, J.C., Sekerina, I., Hill, N.M., & Logrip, M.L. (1999, November). The Kindergarten-Path Effect: Studying On-Line Sentence Processing in Young Children. Poster session presented at the 40th Meeting of Psychonomics Society, Los Angeles, CA.

Trueswell, J.C., Sekerina, I., Hill, N.M., & Logrip, M.L. (1999). The Development of On-Line Language Comprehension Abilities in Children. In M. Nenonen and J. Jarvikivi (Eds.), *Languages, Minds, and Brains: Studies in Languages* (pp. 209-215). Papers from a NorFa Summer School. University of Joensuu, Mekrijarvi, Finland.

Trueswell, J.C., Sekerina, I., Hill, N.M., & Logrip, M.L. (1999, April). Studying On-Line Sentence Processing in Children: Evidence from Eye Movements During Listening. Paper presented at the 13<sup>th</sup> Stanford Child Language Research Forum, Stanford University, CA.

Trueswell, J.C., Sekerina, I., Hill, N.M., & Logrip, M.L. (1998, March). On-Line Sentence Processing in Children: Evidence from Eye Movements During Listening. Paper presented at the 11th Annual CUNY Conference on Human Sentence Processing, Rutgers University, NJ.

Schneider, W., Hill, N.M., Chein, J, McHugo, M, & Cole, M. (2004, November). Subsystems supporting attention, decision making, learning, and skilled performance. Talk presented at 45th Annual Meeting of the Psychonomic Society , Minneapolis, MN.