

Lydia Thi Nguyen

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EDUCATION

Ph.D. (*in progress*), Neuroscience

(projected) Fall 2019

University of Illinois at Urbana-Champaign (UIUC), Champaign, IL

Advisor: Raksha A. Mudar, Ph.D., CCC-SLP

B.S., Biological Sciences (Minor: Psychology), *summa cum laud*

May 2014

Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA

RESEARCH EXPERIENCE

Academic Research Affiliate

June 2017-present

Carle Foundation Hospital

Urbana, IL

Graduate Research Assistant

August 2014-present

Neuroscience Program & Department of Speech and Hearing Science

UIUC

Aging and Neurocognition Lab (AANCL)

Advisor: Raksha A. Mudar, Ph.D., CCC-SLP

- Duties include recruitment cognitively normal and impaired individuals; administration of cognitive assessments; electroencephalography (EEG) data collection, preprocessing using Neuroscan software, and data analysis using MATLAB and EEGLAB toolbox, including development of in-house scripts
- Projects:
 - “Neural Markers of Strategic Attention”
 - “Impact of Hearing Loss on Brain and Cognition in Older Adults”
 - “Strategy-Based Cognitive Training in Individuals with Mild Cognitive Impairment”
 - “Identifying Facilitators and Barriers to the Adoption of the OneClick Platform”

Undergraduate Research Assistant

August 2013-May 2014

Department of Psychology

Virginia Tech

Advisors: Lee Cooper, Ph.D. and Neville Galloway-Williams

- Project: Data collection for Neville Galloway-Williams’ dissertation entitled “Facilitating Self-as-Context: A Treatment Component Study”

Undergraduate Intern

July 2013-April 2014

Virginia Tech Carilion Research Institute

Blacksburg, VA

Translational Decision Neuroscience Lab

Advisors: Pearl Chiu, Ph.D. and Dongil Chung, Ph.D.

- Projects: Functional magnetic resonance imaging studies on economic decision making and social distance

Undergraduate Research Assistant

January 2013-May 2014

Department of Psychology

Virginia Tech

Psychological Services Center (PSC)

Advisor: Lee Cooper, Ph.D. and Jonathan Waldron

- Project: Creation and implementation of new standardized assessment research (STAR) protocol

Undergraduate Research Assistant

August 2012-May 2013

Department of Fish and Wildlife Conservation

Virginia Tech

Advisor: Marcella Kelly, Ph.D.

- Project: Analysis of multi-site camera trap data for tracking jaguars in Belize

TEACHING EXPERIENCE

Graduate Teaching Assistant

Department of Speech and Hearing Science

Course: Introduction to Human Communication Systems & Disorders (SHS 170)

Spring 2018

UIUC

Graduate Teaching Assistant

Department of Psychology

Course: Introduction to Psychology (PSYC 100)

- Primary instructor

Fall 2017

UIUC

Graduate Teaching Assistant

The School of Molecular and Cellular Biology

Course: Experimental Techniques in Cellular Biology (MCB 253)

Spring 2017, Fall 2016, Spring 2016

UIUC

Mentoring students in the laboratory

Aging and Neurocognition Lab (AANCL)

October 2014-present

UIUC

PUBLICATIONS

Publications (* indicates peer-reviewed publications)

1. *Mudar, R.A., **Nguyen, L.T.**, Eroh, J., Chiang, H-S., Rackley, A., & Chapman, S.B. (2019). Event-related Neural Oscillation Changes Following Reasoning Training in Individuals with Mild Cognitive Impairment. *Brain Research, 1704*, 229-240. doi: 10.1016/j.brainres.2018.10.017
2. Swords, G.M., **Nguyen, L.T.**, Mudar, R.A., & Llano, D.A. (2018). Incorporating Audiological Measurements into Alzheimer's Diagnosis. *Hearing Journal, 71*(6), 6. doi: 10.1097/01.HJ.0000538926.57926.1c
3. *Swords, G.M., **Nguyen, L.T.**, Mudar, R.A., & Llano, D.A. (2018). Auditory System Dysfunction in Alzheimer Disease and its Prodromal States: A Review. *Ageing Research Reviews, 44*, 49-59. doi: 10.1016/j.arr.2018.04.001
4. ***Nguyen, L.T.**, Mudar, R.A., Chiang, H.S., Schneider, J.M., Maguire, M.J., Kraut, M.A., & Hart Jr., J. (2017). Theta and Alpha Alterations in Amnesic Mild Cognitive Impairment in Semantic Go/NoGo Tasks. *Frontiers in Aging Neuroscience, 9*, 160. doi: 10.3389/fnagi.2017.00160
5. *Mudar, R.A., Chiang, H.S., Eroh, J., **Nguyen, L.T.**, Maguire, M.J., Spence, J.S., Kung, F., Kraut, M.A., & Hart Jr., J. (2016). The Effects of Amnesic Mild Cognitive Impairment on Go/NoGo Semantic Categorization Task Performance and Event-Related Potentials. *Journal of Alzheimer's Disease, 50*, 577-590. doi: 10.3233/JAD-150586

Published abstracts

1. **Nguyen, L.T.**, Shende, S.A., Rackley, A., Chapman, S.B. & Mudar, R.A. (2018). Strategy-Based Cognitive Training Effects on Event-Related Neural Oscillations in Amnesic Mild Cognitive Impairment. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association, 14*(7), 1067.
2. Shende, S.A., **Nguyen, L.T.**, Burz, S., Rackley, A., Chapman, S.B., & Mudar, R.A. (2018). Relationship Between Use of Inherent Memory Strategies and Memory Performance in Amnesic Mild Cognitive Impairment. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association, 14*(7), 1198-1199.

POSTERS & PRESENTATIONS

Posters

1. **Nguyen, L.T.**, Nie, Q., Myers, D., Gibson, A., Kerssens, C., Mudar, R.A., & Rogers, W.A. *Social Engagement Through Video Chat for Older Individuals With and Without Cognitive Impairment*. Poster to be presented at The Gerontological Society of America Annual Scientific Meeting, Boston, MA, November 2018.
2. **Nguyen, L.T.**, Shende, S.A., Rackley, A., Chapman, S.B., & Mudar, R.A. *Strategy-Based Cognitive Training Effects on Event-Related Neural Oscillations in Amnesic Mild Cognitive Impairment*. Poster presented at the Alzheimer's Association International Conference, Chicago, IL, July 2018.
3. Shende, S.A., **Nguyen, L.T.**, Burz, S., Rackley, A., Chapman, S.B., & Mudar, R.A. *Relationship Between Use of Inherent Memory Strategies and Memory Performance in Amnesic Mild Cognitive Impairment*. Poster presented by S.S. at the Alzheimer's Association International Conference, Chicago, IL, July 2018.

4. Rajan, J., Paolella, A., & **Nguyen, L.T.** *Strategic Attention in Individuals with Amnesic Mild Cognitive Impairment*. Poster presented by J.R. & A.P. at the UIUC Undergraduate Research Symposium, Champaign, IL, April 2018.
5. **Nguyen, L.T.**, Shende, S.A., Tai, Y., Husain, F., & Mudar, R.A. *Cognitive and Neural Alterations in Age-Associated Hearing Loss*. Poster presented at the 12th Annual Eleanor M. Saffran Conference on Cognitive Neuroscience and Rehabilitation of Communication Disorders, Philadelphia, PA, September 2017.
6. Diamond, M., Burz, S., & **Nguyen, L.T.** *Electrophysiological Markers of Cognitive Control in Picture Word Interference Task*. Poster presented by M.D. & S.B. at the UIUC Undergraduate Research Symposium, Champaign, IL, April 2017.
7. Kung, F. & **Nguyen, L.T.** *Connected Language in Alzheimer's Disease*. Poster presented by F.K. at the UIUC Undergraduate Research Symposium, Champaign, IL, April 2017.
8. **Nguyen, L.T.**, Shende, S.A., & Mudar, R.A. *Characterizing Early and Late Mild Cognitive Impairment Using EEG Alpha Power*. Poster presented at the 2017 Chittenden Symposium, Champaign, IL, March 2017.
9. **Nguyen, L.T.**, Shende, S.A., & Mudar, R.A. *Characterizing Early and Late Mild Cognitive Impairment Using EEG Alpha Power*. Poster presented at the Interdisciplinary Health Sciences Initiative 2nd Annual Clinical and Translational Neuroscience Workshop, Urbana, IL, February 2017.
10. **Nguyen, L.T.** & Mudar, R.A. *Alpha Power Changes in Amnesic Mild Cognitive Impairment in Go/NoGo Tasks Involving Semantic Categorization*. Poster presented at The Gerontological Society of America 69th Annual Scientific Meeting, New Orleans, LA, November 2016.
11. **Nguyen, L.T.** & Mudar, R.A. *Alpha Power Changes in Amnesic Mild Cognitive Impairment in Go/NoGo Tasks Involving Semantic Categorization*. Poster presented at Synapse: A Collaborative Neuroscience Conference, Champaign, IL, August 2016.
12. **Nguyen, L.T.**, Kung, F., & Mudar, R.A. *Event-related Potentials and Alpha Power Changes in Amnesic Mild Cognitive Impairment in Go/NoGo Tasks Involving Semantic Categorization*. Poster presented at the Karolinska Institute at Illinois (KI@IL) summit, Champaign, IL, June 2016.
13. **Nguyen, L.T.**, Kung, F., & Mudar, R.A. *Event-related Potentials and Alpha Power Changes in Amnesic Mild Cognitive Impairment in Go/NoGo Tasks Involving Semantic Categorization*. Poster presented at the Chittenden Symposium, Champaign, IL, April 2016.
14. **Nguyen, L.T.**, Chiang, H.S., Eroh, J., Maguire, M.J., Kraut, M.A., Hart Jr., J., & Mudar, R.A. *Alpha Power Changes in Amnesic Mild Cognitive Impairment in Go/NoGo Tasks Involving Semantic Categorization*. Poster presented at the Cognitive Neuroscience Society 23rd Annual Meeting, New York City, NY, April 2016.
15. **Nguyen, L.T.**, Waldron, J.C., Galloway-Williams, N., Fraire, M.G., & Cooper, L.D. *Improvements in OQ at a Community Clinic Differ Based on Depression Severity*. Poster presented by J.C.W. at the Association for Psychological Science 26th Annual Convention, San Francisco, CA, May 2014.
16. **Nguyen, L.T.**, Galloway-Williams, N., Waldron, J.C., & Cooper, L.D. *Broad Autism Phenotype Status and Categories of Stress and Impairment*. Poster presented at the Maryland Association for Behavior Analysis 16th Annual Meeting, Baltimore, MD, November 2013.

Oral presentations

1. **Nguyen, L.T.** & Mudar, R.A. *Effects of Strategy-Based Cognitive Training in Mild Cognitive Impairment*. Presentation given at the Illinois Speech-Language-Hearing Association 58th Annual Convention, Rosemont, IL, February 2018.
2. **Nguyen, L.T.** *Event-Related Neural Oscillations in Amnesic Mild Cognitive Impairment*. Presentation given at the UIUC Department of Speech and Hearing Science proseminar, Champaign, IL, December 2017.
3. Husain, F., **Nguyen, L.T.**, Tai, Y., Shende, S.A., & Mudar, R.A. *Impact of Hearing Loss on Brain and Cognition in Older Adults*. Presentation given by F.H. at the 4th International Conference on Cognitive Hearing Science for Communication, Linköping, Sweden, June 2017.

AWARDS & RECOGNITION

List of Teachers Ranked as Excellent By Their Students

Center for Innovation in Teaching and Learning

- For SHS 170
- Rated as outstanding (top 10% of all TAs)

Spring 2018

UIUC

Graduate Teacher Certificate*Center for Innovation in Teaching and Learning***February 2018**

UIUC

List of Teachers Ranked as Excellent By Their Students*Center for Innovation in Teaching and Learning***Fall 2017**

UIUC

- For PSYC 100

Saffran Student Scholar Travel Award*Temple University***August 2017**

Philadelphia, PA

List of Teachers Ranked as Excellent By Their Students*Center for Innovation in Teaching and Learning***Spring 2017, Fall 2016, Spring 2016**

UIUC

- For MCB 253
- Rated as outstanding (top 10% of all TAs)

Neuroscience Program Fellowship*Neuroscience Program***August 2014-May 2015**

UIUC

COMPUTER SKILLS

Microsoft Office (Word, Excel, PowerPoint)

Neuroscan

MATLAB

EEGLAB toolbox

SAS

SPSS Statistics

EndNote

HTML (limited)

ADDITIONAL SKILLS

Magnetic Resonance Imaging (MRI) safety trained

Training completed **December 2017**

Clinical Dementia Rating certified rater

Training completed **September 2017**

Basic Life Support (BLAS) certified provider

Training completed **August 2017****VOLUNTEER EXPERIENCE****Alzheimer's Association Walk to End Alzheimer's**, Champaign, IL**Sept 2018, Oct 2017, Sept 2016****Brain Awareness Day**, Champaign, IL**April 2018, 2017, 2016, 2015**

- Served as lead student chair on the executive committee for two years (September 2015-April 2017)

Champaign-Urbana Youth Hockey Association, Champaign, IL**September 2016-present**

- Serving as webmaster (using Google Sites)

Neuroscience Program Open House, Champaign, IL**February 2018, 2017, 2016, 2015****The Lyric Theater**, Blacksburg, VA**January 2011-May 2014****Big Event**, Blacksburg, VA**April 2013****Relay for Life**, Blacksburg, VA**April 2013****PROFESSIONAL AFFILIATIONS**

Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment (ISTAART) • member

2018-present

Illinois Speech-Language-Hearing Association • member

2017-present

The Gerontological Society of America • member

2016-2017

Cognitive Neuroscience Society • member

2015-2016

Maryland Association for Behavior Analysis • member

2013-2014

Association for Psychological Science • member

2013-2014

Phi Sigma National Biological Sciences Honor Society • member

2012-2014