**Qijing Yu**

*curriculum vitae*

fi8271@wayne.edu

**EDUCATION**

Current Doctoral Student, Psychology (Behavioral and Cognitive Neuroscience)

Pre-doctoral Trainee, Institute of Gerontology (IOG)

Wayne State University, Detroit, MI.

2017 M.A., Psychology (Behavioral and Cognitive Neuroscience)

Wayne State University, Detroit, MI.

2012 B.S., Psychology

Zhejiang Normal University, China

**PUBLICATIONS**

**Peer-Reviewed Journal Articles**

Ofen, N., Tang, L., **Yu, Q.**, Johnson, E. (In press). *Memory and the Developing Brain: From Description to Explanation with Data and Innovation in Methods. Devevelopmental Cognitive Neuroscience.* [Epub 2018 Dec 30]. doi.org/10.1016/j.dcn.2018.12.011

**Yu, Q.**, McCall, D. M., Homayouni, R., Tang, L., Chen, Z., Schoff, D., … Ofen, N. (2018). Age-associated increase in mnemonic strategy use is linked to prefrontal cortex development. *NeuroImage*, *181*(July), 162–169. [Epub 2018 Jul 4]. doi.org/10.1016/j.neuroimage.2018.07.008

**Yu, Q.**, Daugherty, A. M., Anderson, D. M., Brush, D., Hardwick, A., Lacey, W., Nishimura, M., Raz, S., Ofen, N. (2018). Socioeconomic Status and Hippocampal Volume in Children and Young Adults. *Developmental Science* i (February): e12561*.* [Epub 2017 May 2]. doi: 10.1111/desc.12561

Bender, A.R., Keresztes, A., Bodammer, N.C., Shing, Y.L., Werkle-Bergner, M., Daugherty, A.M., **Yu, Q.**, Kühn, S., Lindenberger, U., Raz, N. (2017). Optimization and validation of automated hippocampal subfield segmentation across the lifespan. *Human Brain Mapping.* [Epub 2017 Nov 23]. doi: 10.1002/hbm.2389

Ofen, N., **Yu, Q.**, & Chen, D. (2016). Memory and the developing brain: are insights from cognitive neuroscience applicable to education? *Current Opinion in Behavioral Sciences*, *10*, 81–88. [Epub 2016 May 24]. doi: org/10.1016/j.cobeha.2016.05.010

Yang, T-x., Allen, R., **Yu, Q-j.**, Chan, R. C.K. (2015). The influence of input and output modality on following instructions in working memory. *Scientific Reports, 5,* 17657. doi: 10.1038/srep17657

Daugherty, A. M., **Yu, Q.**, Flinn, R., & Ofen, N. (2015). A reliable and valid method for manual demarcation of hippocampal head, body, and tail. *International Journal of Developmental Neuroscience, 41*(0), 115-122. [Epub 2015 Feb 7]. doi: 10.1016/j.ijdevneu.2015.02.001

Yan, C., Yang, T., **Yu, Q-j.**, Jin, Z., Cheung, E. F. C., Liu, X., & Chan, R. C. K. (2015). Rostral medial prefrontal dysfunctions and consummatory pleasure in schizophrenia: A meta-analysis of functional imaging studies. *Psychiatry Research: Neuroimaging, 231*(3), 187-196. [Epub 2015 Jan 12]. doi: 10.1016/j.pscychresns.2015.01.001.

**RESEARCH EXPERIENCE**

2013 - Current Cognitive and Brain Development Laboratory Research Assistant

Institute of Gerontology, Wayne State University

PI: Noa Ofen, Ph.D.

2012 - 2013 Neuropsychology and Applied Cognitive Neuroscience Laboratory Research Assistant

Institute of Psychology, Chinese Academy of Science

PI: Raymond Chan, Ph.D.

**GRANTS**

**Funded External Grants**

2018 - 2019 “Socioeconomic Status and BDNF Genotype as Modifiers of Hippocampal Subfields Development in Children”

Institution: Wayne State University

Role on Project: Principle Investigator (PI)

Agency: Blue Cross Blue Shield of Michigan Student Award

Total Award: $3,000

**Funded Internal Grants**

2018 - 2019 “Socioeconomic Status and BDNF Genotype as Modifiers of Hippocampal Subfields Development in Children”

Institution: Wayne State University

Role on Project: PI

Agency: Competitive Rumble Fellowship, Wayne State University

Total Award: $21,279

2018 “Socioeconomic Status and BDNF Genotype as Modifiers of Hippocampal Subfields Development in Children”

Institution: Wayne State University

Role on Project: PI

Agency: Betty J. Neitzel Summer Research Award, Wayne State University

Total Award: $4,000

2017 “Contribution of the Hippocampal Subfields to Spatial Navigation across Development”

Institution: Wayne State University

Role on Project: PI

Agency: Betty J. Neitzel Summer Research Award, Wayne State University

Total Award: $4,000

2016 - 2017 “Validity of FreeSurfer Segmentation of the Hippocampus Compared to Manual Demarcation in Development”

Institution: Wayne State University

Role on Project: PI

Agency: Graduate Student Master’s Thesis Funding, Wayne State University

Total Award: $1,000

**Submitted External Grants**

2018 - 2019 “Socioeconomic Status and BDNF Genotype as Modifiers of Hippocampal Subfields Development in Children”

Institution: Wayne State University

Role on Project: Principle Investigator (PI)

Agency: Elizabeth Munsterberg Koppitz Fellowship, American Psychological Foundation

Total Award: $25,000

2018 - 2020 “Development of a Harmonized Segmentation Protocol for Hippocampal Subfields and Parahippocampal Subregions at T2-Weighted 3 Tesla MRI”

Institution: University of Pennsylvania

PI: Laura Wisse, Ph.D.

Role on Project: Consultant

Agency: R21, National Institute of Health

**AWARDS AND HONORS**

2018 Travel Award, Flux Society: Developmental Cognitive Neuroscience

Poster Award, Graduate and Post-Doctoral Research Symposium (2nd place)

Best Podium Presentation Award, IOG Lifespan Alliance Research Day

Travel Award, Institute of Gerontology

Travel Award, Psychology

2017 Paper Award, Elizabeth Olson Memorial Award

Julie A. Thomas Memorial Award

Travel Award, Institute of Gerontology

Travel Award, Psychology

2016 Paper Award, Elizabeth Olson Memorial Award

Julie A. Thomas Memorial Award

Paper Award, Steven A. Lewis Memorial Award

Poster Award, Graduate and Post-Doctoral Research Symposium (3rd place)

2015 Poster Award, Psychology Graduate Research (1st place)

Travel Award, Institute of Gerontology

Travel Award, Psychology

2014 Poster Award, Psychology Graduate Research (1st place)

**FELLOWSHIP AND INTERNATIONAL WORKSHOP**

Apr 2018 Hippocampal Subfield Segmentation Summit (HS3), Huntington Beach, CA.

Sep 2017 Modeling Developmental Change, Pre-meeting Workshop of Flux: Society for Developmental Cognitive Neuroscience, Portland, OR.

Jul 2017 Hippocampal Subfield Segmentation Summit (HS3), London, UK

Apr 2017 Hippocampal Subfield Segmentation Summit (HS3), Montreal, Canada

**CONFERENCE PRESENTATIONS**

**International**

***Podium Presentations***

**Yu, Q.,** Ramesh, S., Thompson, B., Chen, Z., Nishimura, M., & Ofen, N. (2018). Memory Development: Complementary Roles of the Hippocampus and Prefrontal Cortex. Flux Society 6th Congress, Berlin, Germany

***Poster Presentations***

Tang, L., **Yu, Q.**, Homayouni, R., Ramesh, S., Thompson, B., Chen, Z., & Ofen, N. (2018). Development of associative memory: A latent change score model. Big Data, Little Brains - Flux Society Satellite Conference, Chapel Hill, NC.

**Yu, Q.**, Homayouni, R., Ramesh, S., & Ofen, N. (2018). Hippocampal CA3-dentate gyrus volume is linked to associative memory in young children. International Conference on Learning and Memory, Huntington Beach, CA.

**Yu, Q.**, Ramesh, S., Thompson, B., Chen, Z., Nishimura, M., & Ofen, N. (2018). The CA3-dentate gyrus is associated with episodic memory with high demand on pattern separation in 5-6-year olds. Cognitive Neuroscience Society Annual Meeting, Boston, MA.

**Yu, Q.**, Homayouni, R., Shafer, A., & Ofen, N. (2017). Developmental Difference in Hippocampal Segmentation using FreeSurfer Compared with Manual Demarcation. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

Daugherty A.M., Bender A.R., **Yu Q.**, Shafer A.T., Arshad M., Ofen N., & Raz N. (2016). Advanced age, vascular risk and inflammation exacerbate differential shrinkage of hippocampal subfields in healthy adults: a two-year longitudinal study. Selected nanosymposium oral presentation at Society for Neuroscience Annual Meeting, San Diego, CA.

Tang, L., Shafer, A., **Yu, Q.**, Angell, W.H., Liddane, R., & Ofen, N. (2016). Mapping Prefrontal Cortex Contribution to the Development of Memory Formation. Cognitive Neuroscience Society Annual Meeting, New York, NY.

Anderson, D., **Yu, Q.**, Heitzer, A., Piercy, J., Raz, S., & Ofen, N. (2016). Assessing the relationship Between Episodic Memory and the Volume of the Hippocampus in Young Children Born Prematurely. International Neuropsychological Society, Boston, MA.

**Yu, Q.**, Shafer, A., Anderson, D., Heitzer, A., Piercy, J., Brush, D., Angell, W., Raz, S., & Ofen, N. (2015). Neural Correlates of Spatial Navigation in Young Children: Linking Brain Volumetry and Performance on a Virtual Morris Water Maze Task. Society for Neuroscinece Annual Meeting, Chicago, IL.

**Yu, Q.**, Anderson, D., Chen, Z., Nishimura, M., & Ofen, N. (2015). Neural Correlates of Age-related Increase in Use of Memory Strategies. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

Yang, T-x., **Yu, Q-j.**, Allen, R., & Chan, R. C.K. (2014). The influence of input and output modality on following instructions in working memory. International Conference on Working Memory, Cambridge, UK

Tang, L., Rigoli, C., Patel, I., Adapa, N., **Yu, Q.**, & Ofen, N. (2014). Developmental Differences in the Anterior and Posterior Medial Temporal Lobe during Memory Formation. Organization for Human Brain Mapping Annual Meeting, Hamburg, Germany.

Patel, H., Miller Rigoli, C. Schwarzlose, R., **Yu, Q.**, Tang, L., Grosu, I., & Ofen, N. (2014). Mapping the formation of memory in children using Electrocorticography. American Medical Association, Dallas, TX.

**Local**

***Podium Presentations***

**Yu, Q.,** Ramesh, S., Thompson, B., Chen, Z., Nishimura, M., & Ofen, N. (2018). Memory Development: Complementary Roles of the Hippocampus and Prefrontal Cortex. IOG Lifespan Alliance Research Day, Detroit, MI. *(Best Podium Presentation Award)*

**Yu, Q.**, Anderson, D., Nishimura, M., & Ofen, N. (2015). Neural Correlates of Age-related Increase in Use of Memory Strategies. IOG Lifespan Alliance Research Day, Detroit, MI.

***Poster Presentations***

**Yu, Q.,** Ramesh, S., Thompson, B., Chen, Z., Nishimura, M., & Ofen, N. (2018). Memory Development: Complementary Roles of the Hippocampus and Prefrontal Cortex. Graduate and Post-Doctoral Research Symposium, Detroit, MI. *(2nd place poster award)*

**Yu, Q.**, Homayouni, R., Shafer, A., & Ofen, N. (2017). Developmental Difference in Hippocampal Segmentation using FreeSurfer Compared with Manual Demarcation. Psychology Department's Annual Graduate Student Research Poster Day, Detroit, MI.

**Yu, Q.**, Homayouni, R., Shafer, A., & Ofen, N. (2017). Validity of FreeSurfer Hippocampal Segmentation in Development. Graduate and Post-Doctoral Research Symposium, Detroit, MI.

**Yu, Q.**, Homayouni, R., Shafer, A., & Ofen, N. (2017). Validity of FreeSurfer Hippocampal Segmentation in Development. IOG Lifespan Alliance Research Day, Detroit, MI.

**Yu, Q.**, Shafer, A., Anderson, D., Heitzer, A., Piercy, J., Brush, D., Angell, W., Raz, S., & Ofen, N. (2016). Neural Correlates of Spatial Navigation in Young Children.Translational Neuroscience Program Symposium and Research Day, Detroit, MI.

**Yu, Q.**, Anderson, D., Nishimura, M., & Ofen, N. (2016). The Role of Prefrontal Cortex in Mnemonic Strategy Use. Graduate and Post-Doctoral Research Symposium, Detroit, MI.

**Yu, Q.**, Anderson, D., Nishimura, M., & Ofen, N. (2016). The Role of Prefrontal Cortex in Mnemonic Strategy Use. IOG Lifespan Alliance Research Day, Detroit, MI. *(3rd place poster award)*

Sam, P., Anderson, D., **Yu, Q.**, Galler, V., Adapa, N., Chen, D., & Ofen, N. (2016). Contribution of working memory capacity to verbal list recall across cognitive development. IOG Lifespan Alliance Research Day, Detroit, MI.

Sam, P., Anderson, D., **Yu, Q.**, Galler, V., Chen, D., & Ofen, N. (2016). Developmental Effects in the Contribution of Working Memory Capacity to Verbal List Recall. Annual Rodney Clark Undergraduate Research/Poster Day, Detroit, MI.

Sarvepalli, S., Liddane, R., Chen, D., Galler, V., **Yu, Q.**, & Ofen, N. (2016). Testing Item and Associative Memory in Children and Adolescents. Annual Rodney Clark Undergraduate Research/Poster Day, Detroit, MI.

**Yu, Q.**, Shafer, A., Anderson, D., Heitzer, A., Piercy, J., Brush, D., Angell, W., Raz, S., & Ofen, N. (2015). Neural Substrates of Spatial Navigation in Young Children. Psychology Department's Annual Graduate Student Research Poster Day, Detroit, MI. *(1st place poster award)*

**Yu, Q.**, Shafer, A., Anderson, D., Heitzer, A., Piercy, J., Brush, D., Angell, W., Raz, S., & Ofen, N. (2015). The Role of Medial Temporal Lobe and Prefrontal Cortex in Spatial Navigation Performance in 5–6 year olds. Annual Graduate Student Research Day, Wayne State University School of Medicine, Detroit, MI.

Sam, P., Anderson, D., **Yu, Q.**, Galler, V., Adapa, N., Chen, D., & Ofen, N. (2015). Contribution of working memory capacity to verbal list recall across cognitive development. Annual Rodney Clark Undergraduate Research/Poster Day, Detroit, MI.

**Yu, Q.**, Anderson, D., Nishimura, M., & Ofen, N. (2015). Neural Correlates of Age-related Increase in Use of Memory Strategies. Graduate Exhibition, Detroit, MI.

**Yu, Q.**,Brush, D., Ghazi, S., Nishimura, M., Daughtery, A., & Ofen, N. (2015). Socioeconomic Status and Hippocampal Volume. Psychology Department's Annual Graduate Student Research Poster Day, Detroit, MI. *(1st place poster award)*

Brush, D., Ghazi, S., Jones, K., Lacey, W., **Yu, Q.**, Nishimura, M., & Ofen, N. (2015). Socioeconomic Status and Hippocampal Volume. IOG Lifespan Alliance Research Day, Detroit, MI.

Brush, D., Ghazi, S., Jones, K., Lacey, W., **Yu, Q.**, Nishimura, M., & Ofen, N. (2014). Socioeconomic Status and Hippocampal Volume. Psychology Poster Day, Detroit, MI.

**MENTORING AND TEACHING**

**Students Mentored**

Bryn Thompson, Biology, Wayne State University

Salma Hassanieh, Chemistry, Wayne State University

Sruthi Ramesh, Biology, Wayne State University

Sanaya Irani, Psychology, Wayne State University

Daniel Schoff, Psychology, Grand Valley State University

Sydney Howard, Psychology, Wayne State University

Abhinav Katti, Basic Medical Sciences, Wayne State University

Justin Robinson, Chemistry, Wayne State University

Sadia Ghazi, Psychology, Wayne State University

Robert Flinn, Biology, Wayne State University

**Undergraduate Research Projects Mentored** \*indicates undergraduate presenter

\*Irani, S., \*Ramesh, S., Yu, Q., Anderson, D., Tang, L., Shafer, A., Raz, S., Ofen, N. (2017). Neural Correlates of the Development of Spatial Navigation Ability. Summer Undergraduate Research Experience Symposium, Wayne State University School of Medicine, Detroit, MI (Oral presentation).

Also presented at Undergraduate Research Opportunities Program, Detroit, MI & Lifespan Alliance Research Day, Institute of Gerontology, Detroit, MI (Won Best Undergraduate Poster Award). & National Conference for Undergraduate Research, University of Memphis, Memphis, TN.

\*Howard, S., \*Irani, S., Yu, Q., Anderson, D., Angell. W.H., Tang, L., Heitzer, A., Piercy, J., Brush, D., Shafer, A., Raz, S., Ofen, N. (2016). The Development of Spatial Navigation Ability from Childhood to Adulthood. Michigan Society for Neuroscience, Lansing, MI (Best Undergraduate Poster Award).

Also presented at Annual Rodney Clark Undergraduate Poster Day, Detroit, MI (Best Undergraduate Poster Award). & College of Liberal Arts and Sciences Research Fair, Detroit, MI (Tier One Undergraduate Contest Winner).

\*Sruthi Ramesh, S., Chen, D., Ghazi, S., Schwarzlose, R., Yu, Q., Ofen, N. (2016). How Does Time Affect the Semantic Memory of Rapidly Presented Images? Annual Rodney Clark Undergraduate Poster Day, Detroit, MI.

Also presented at Undergraduate Research Opportunities Program, Detroit, MI & Lifespan Alliance Research Day, Institute of Gerontology, Detroit, MI.

\*Ghazi, S., Chen, Z., Schwarzlose, R., Yu, Q., & Ofen, N. (2015). Semantic Representation of Visual Information Needs Time to be Saved in Long-Term Memory. Annual Rodney Clark Undergraduate Research/Poster Day, Detroit, MI.

**Workshops Presented**

2017 Graduate seminar, Research Design and Statistical Analysis

Teacher Education Division, College of Education, Detroit, MI

Office of Health Research, College of Nursing, Detroit, MI

**Teaching Assistant**

2012 Introductory Psychology (High School affiliated with Zhejiang Normal Univ.)

2011 Introductory Psychology (Online, Lawrence Technological Univ.)

**PROFESSIONAL MEMBERSHIP**

Flux: The Society for Developmental Cognitive Neuroscience, since 2017

Cognitive Neuroscience Society, since 2015

Society for Neuroscience, since 2015

**PROFESSIONAL SERVICE**

2018 Brain Day, Volunteer

STEM Day, Volunteer of “How the Brain Works” section

Developmental Psychology (Journal), Reviewer

2017 Research Design and Analysis Department, Consultant

"HBEC (Healthier Black Elders Center) Lunch and Learn" series, Volunteer

STEM Day, Organizer of “How the Brain Works” section

Journal of Neuroscience, Reviewer

Current Opinion in Behavioral Sciences (Journal), Reviewer

Developmental Science (Journal), Reviewer

Cerebral Cortex (Journal), Reviewer

Hippocampus (Journal), Reviewer

2016 Research Design and Analysis Department, Consultant

Go-Girl (Gaining Options-Girls Investigate Real Life), Volunteer

Brain@Wayne Retreat planning, Committee Member

Brain Day planning, Coordinator of the Lifespan Neuroscience Group

Future Docs Day, Volunteer

Diversity Committee in the Psychology Department, Area Representative

Frontiers in Neuroscience (Journal), Reviewer

Human Brain Mapping (Journal), Reviewer

Cognitive Science (Journal), Reviewer

PLOS ONE (Journal), Reviewer

2015 Brain Day, Volunteer

Scientist Day (Detroit Zoo), Volunteer

Portal to the Public Fellowship Program (Detroit Zoo), Fellow

Go-Girl (Gaining Options-Girls Investigate Real Life), Volunteer

Brain Outreach Event, Avondale High School, Auburn Hills, MI, Volunteer

Diversity Committee in the Psychology Department, Area Representative

PLOS ONE (Journal), Reviewer

Cognitive Science (Journal), Reviewer

Brain and Cognition (Journal), Reviewer

Organization of Human Brain Mapping Annual Meeting (Conference Abstract), Reviewer

Developmental Cognitive Neuroscience (Journal), Reviewer

2014 Student Society of Neuroscience, WSU, Member

Brain Day, Volunteer

Future Docs Day, Volunteer

Scientist Day (Detroit Zoo), Volunteer

Portal to the Public Fellowship Program (Detroit Zoo), Fellow

"HBEC (Healthier Black Elders Center) Lunch and Learn" series, Volunteer

2011 Psychiatric Department, Jinhua Hospital, China (Supervisor: Eng Huang), Volunteer

2009 - 2010 Psychology Counseling Station, Zhejiang Normal University, Member