

Henry George Wolf VII

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EDUCATION

2014 – 2018 PhD in Language and Cognition, Certificate in the Neurobiology of Language
 (est.) *“Modeling Dyslexic Reading with Deep Neural Networks”*
 Supervised by Dr. Jay Rueckl
 Université de Montréal, Deep Learning Summer School (2017)
 École Polytechnique, Data Science Summer School (2017)
 Soochow University, Critical Language Scholars Program (2015)
University of Connecticut

2009 – 2011 MA in Teaching English to Speakers of Other Languages
 *“Neural Development During Critical Periods in Second Language
 Acquisition”*
 Supervised by Dr. William Snyder
Columbia University, Teachers College (Tokyo)

2002 – 2006 BS in International Business and Marketing
 Participant in the 2004 Asia Study Abroad Program
University of Dayton

RESEARCH SUMMARY

My research involves the development of models of natural language on the computational, representational, and physical levels. These levels are correlates of my three main areas of focus: (1) Cognitive Science, i.e. modeling of language processing while reading, investigating language processing in second and third language acquisition; (2) Machine Learning, i.e. developing simulations of reading, including using deep neural networks to generate representations of language from text; (3) Neurobiology of Language, i.e. imaging language processing with fMRI.

AWARDS AND HONORS

Research Grants

2017 – 2018 Research Supplement to Support Diversity in Health-Related Fields
 *Financial and professional support to model dyslexia using deep learning valued at
 \$102,144 over two years*
 U. S. National Institute of Health (NIH)

Grants, Fellowships, and Scholarships

- 2016 – 2021 Multicultural Scholars Award
(max.) *Full-time financial and professional support including a \$24,060/year stipend for up to five years and a full tuition waiver*
University of Connecticut Graduate School
- 2016 Hardware for Computationally-Intensive Models of Language
Grant of \$9,000 awarded to acquire a computer system capable of 44 TFLOPS to be used by the Deep Learning Research Group for computational modeling
University of Connecticut Institute of Brain and Cognitive Sciences
- 2015 Critical Language Scholarship
Full funding to attend a two-month intensive Chinese language course at Soochow University in China including a supplementary stipend of \$690
U. S. Department of State
- 2014 – 2016 Integrative Graduate Education and Research Traineeship (IGERT)
Fellow at the University of Connecticut IGERT in Language Plasticity including a \$30,000/year stipend for two years and a full tuition waiver
U. S. National Science Foundation (NSF)

PUBLICATIONS

Journal Articles

- Wolf VII, H., & Rueckl, J. (2017). Individual differences in sensitivity to homophony in visual word recognition. *Master's Theses, 1130*. http://opencommons.uconn.edu/gs_theses/1130
- Wolf VII, H., & Rueckl, J. (in preparation). Simulating dyslexia as spectra of impairment: an investigation of the effects of control parameters on model performance.
- Wolf VII, H. (in preparation). Generating orthographic representations from images of text using a simulation of lexical decision and syllabification.
- Wolf VII, H. (in preparation). Writing systems and developmental dyslexia: a review.
- Wolf VII, H. (in preparation). Applications of deep learning for psycholinguistics: a review.

Books

- Bartelen, H., Kostiuk, M., & Wolf, H. G., VII (2014). Great presentations 2: Plan, present and communicate. Tokyo: R.I.C Publications.
- Bartelen, H., Kostiuk, M., & Wolf, H. G., VII (2013). Great presentations 1: Plan, present and communicate. Tokyo: R.I.C Publications.

Conference Presentations

- Wolf, H. G., VII, & Rueckl, J. (2017). Parametrically modeling individual differences in developmental dyslexia. Presented at the Society for the Scientific Study of Reading.

Halifax, Canada, July 15, 2017.

Rueckl, J. G., Li, T., Sawi, O., Wolf, H. G., VII, Brown, J. M., & Zevin, J.D. (2015). Individual differences in skilled word reading. Presented at the International Meeting on Reading in Different Orthographies. San Sebastián, Spain, June 28, 2015.

Wolf, H. G., VII. (2012). Effects of teacher self-observation through recording and transcription. Presented at the Japan Association of Language Teachers (JALT) Conference, 2012.

Bartelen, H., Kostiuk, M., & Wolf, H. G., VII. (2012) Teaching speaking via presentations and speeches. Presented at the English Teachers in Japan (ETJ) Tokyo Expo, 2012.

Wolf, H. G., VII. (2011). Blogging and extensive reading in the English as a Foreign Language classroom. Presented at the JALT Conference Graduate Student Showcase, 2011.

Conference Posters

Wolf, H. G., VII. (2017). Orthographic representation learning for modeling dyslexia. To be presented at the annual conference on Neural Information Processing Systems 2017, Long Beach, CA.

Wolf, H. G., VII. (2017). Simulating individual differences in reading acquisition using convolutional neural networks. Presented at the Data Science Summer School 2017, Palaiseau, France.

Wolf, H. G., VII. (2017). Simulating individual differences in reading acquisition using deep learning. Presented at the Deep Learning Summer School 2017, Montreal, QC, Canada.

Wolf, H. G., VII, & Rueckl, J. (2015). Individual differences in homophone and pseudohomophone effects. Presented at the annual LangFest 2015, Storrs, CT.

Conference Papers

Wolf, H. G., VII, & Grissom, A., II. (in preparation). Counting strokes in Chinese characters. Submitted to the annual conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies 2018, New Orleans, LA.

EXPERIENCE

Research

2014 – 2018 Doctoral Research
(est.) University of Connecticut, Storrs

2016 – 2016 Statistics Consultant
 University of Connecticut, Storrs

2010 – 2013 Independent Research
 Kanda Institute of Foreign Languages, Tokyo

Teaching

- 2013 – 2014 Adjunct Instructor
New York University, American Language Institute, Tokyo
- 2012 – 2014 English Teacher
Kudan Institute of English, Tokyo
- 2012 – 2013 Teaching Assistant
Columbia University, Teachers College, Tokyo
- 2009 – 2014 English Teacher
Kanda Institute of Foreign Languages, Tokyo
- 2009 – 2014 English Teacher
Tokyo YMCA International School, Tokyo
- 2008 – 2012 English Teacher
FEN Foreign Academy, Saitama
- 2008 – 2009 Assistant English Teacher
Shiki City Board of Education, Saitama
- 2007 – 2008 English Teacher
Chosun Ilbo Delicious English, Gyeonggi
- 2006 – 2007 Assistant Language Teacher
Participant in the Japan Exchange and Teaching Program
Yokote City Board of Education, Akita

SERVICE

Conference Positions

- 2012 Conference Co-Chair
National JALT CALL Conference

Academic Committees

- 2016 – 2018 Founder
(est.) Deep Learning Research Group
University of Connecticut, Storrs
- 2015 – 2016 Founder
Data Science Research Group
University of Connecticut, Storrs
- 2015 – 2016 Event Coordinator
Language and Cognition Department
University of Connecticut, Storrs

2014 – 2018 Organizing Member
(est.) IGERT International Research Committee
University of Connecticut, Storrs

2014 – 2018 Member
(est.) IGERT J-Term Organization Committee
University of Connecticut, Storrs

Professional Societies

2017 – PRES Member
Society for the Scientific Study of Reading

2014 – 2015 Member
American Psychological Society

2011 – 2014 Member
Japan Association of Language Teachers

TECHNICAL SKILLS

Natural Languages

English Native

Chinese Upper-Intermediate
ACTFL Oral Proficiency Interview: Intermediate-High
Passed Hanyu Shuiping Kaoshi (HSK): Level 3
Passed Spoken Hanyu Shuiping Kaoshi (HSKK): Level 1
Studied independently and at Soochow University

Japanese Upper-Intermediate
Studied independently while living in Japan from 2006 – 2014

French Novice

Spanish Novice

Programming Languages

Python Intermediate
Studied independently
Used heavily for deep learning modeling of language

R Advanced
Studied independently and at the University of Connecticut
Used heavily for research data analysis

SQL Intermediate

Studied independently

REFERENCES

Dr. Jay Rueckl

Associate Professor and MRI Center Director, University of Connecticut

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Dr. William Snyder

Assistant Director of TESOL MA Program, Kanda University of International Studies

Email snyder-w@kanda.kuis.ac.jp

Telephone +81.3.3254.3586

Dr. Vivian Lindhardsen

Adjunct Associate Professor of Applied Linguistics and TESOL, Columbia University (TC)

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Telephone +1.212.678.8358