

NAOMI TACHIKAWA SHAPIRO

CONTACT +1 000 000 0000 | tsnaomi@uw.edu | tsnaomi.net | github.com/tsnaomi

RESEARCH Natural language processing, psycholinguistics, morpho-syntax, phonology

EDUCATION **Ph.D., Computational Linguistics**, *anticipated 2022*
University of Washington

– **Visiting Student Researcher**, Autumn 2019
Stanford University

M.S., Symbolic Systems, 2016
Stanford University

B.A., Linguistics and Communication with Honors, 2011
University of Washington

CURRENT PROJECTS in **NLP**: Comparing LSTM and Transformer architectures for incorporating morphological analysis into Modern Hebrew language models.

in **Computational Phonology**: Examining the effects of part of speech, syntax, phonology, and informativity on the deaccentuation of repeated words in spoken English.

PAPERS Anttila, A., Dozat, T., Galbraith, D., & **Shapiro, N. T.** To appear. Sentence stress in presidential speeches. In G. Kentner and J. Kremers (eds.), *Prosody in Syntactic Encoding*, special issue of *Linguistische Arbeiten*.

Anttila, A. & **Shapiro, N. T.** 2017. The interaction of stress and syllabification: Parallel or serial? *Proceedings of the 34th West Coast Conference on Formal Linguistics (WCCFL)*, 52–61.

Shapiro, N. T. 2016. Splitting compounds with ngrams. *Proceedings of the 26th International Conference on Computational Linguistics: Technical papers (COLING)*, 630–640.

TALKS Atkinson, E., Rigby, I., **Shapiro, N. T.**, Woo, B., & Omaki, A. Syntactic adaptation effects do not transfer across tasks. *CUNY Conference on Human Sentence Processing. UC Davis*. 17 March 2018.

Shapiro, N. T. A language modeling and constraint-based approach to compound segmentation. *Symbolic Systems Forum, Stanford University*. 23 May 2016.

Shapiro, N. T. Finnish compound segmentation. *Phonetics and Phonology Workshop, Department of Linguistics, Stanford University*. 8 April 2016.

RESEARCH ASSISTANT to **Naja Ferjan Ramírez**, 1/2020 – present
Language Development & Processing Lab, University of Washington
Analyzing a longitudinal dataset to assess the impact of diverse learning environments and socio-economic factors on language outcomes in children.

to **Akira Omaki**, 9/2017 – 3/2018
Language Development & Processing Lab, University of Washington
Studied filler-gap dependences and syntactic adaptation in adults through eye-tracking experiments. Investigated how children process syntactic ambiguities using the visual world eye-tracking paradigm.

to **Arto Anttila**, 1/2015 – 9/2015; 6/2016 – 12/2017
Department of Linguistics, Stanford University
Investigated Finnish phonotactics and English sentential prosody via computational and information-theoretic approaches. Created the Python package *FinnSyll* for the automatic syllabification of Finnish.

INDUSTRY **Backend Engineer**, 6/2014 – 12/2014; 2/2017 – 9/2017
Venyoos, Inc., Los Angeles, CA
Developed the prototype and backend of *SchoolSpace*, web-based software for school districts to manage facility rentals and increase income to public schools.

Production Engineer, 3/2012 – 3/2013
Wavii, Inc., Seattle, WA (acquired by Google in 2013)
Managed the text and image content on the frontend of a news aggregator app. Annotated news snippets for genre, named entities, and predicate relations.

TEACHING **Lead Instructor** for the **Summer Immersion Program** in **Redmond, WA**, Summer 2019
Girls Who Code, Inc.

TA for **LING 200 Introduction to Linguistic Thought**, Spring 2018
University of Washington. Instructor: Laura McGarrity.

TA for **SYMSYS 100 Minds and Machines**, Autumn 2015
Stanford University. Instructors: Daniel Lassiter, Thomas Icard.

TA for **Python Web Development**, Summer 2014
Code Fellows, LLC. Instructor: Cris Ewing.

AWARDS **Eero and Helli Tetri Endowed Fund for Finnish Studies Scholarship**
2019-2020 Academic Year

Foreign Language and Area Studies (FLAS) Fellowship – Modern Hebrew
2018-2019 Academic Year

CODE **Python, PyTorch**, Keras, JavaScript, Ruby, HTML/CSS, Django, Flask, Node.js, Rails, PostgreSQL, Git

LANGUAGES English (Native), Modern Hebrew (Intermediate), Japanese (Beginner-Intermediate)

RELEVANT COURSES **University of Washington**
CSE 517 Natural Language Processing
CSE 599 Representation and Reasoning in NLP
LING 570 Shallow Processing Techniques for NLP
LING 571 Deep Processing Techniques for NLP
LING 572 Advanced Statistical Methods in NLP
LING 575 Analyzing Neural Language Models (*currently enrolled*)
PSYCH 509 Core Concepts in Computational Cognitive and Neural Modeling
EE 596 Conversational Artificial Intelligence

Stanford University
CS 124 From Languages to Information
CS 157 Logic and Automated Reasoning
CS 224U Natural Language Understanding