

Bowen Wang

2121 Berkeley Way, Berkeley, CA 94709 | (510) 365-8641

bowenwang6266@berkeley.edu

EDUCATION

PhD **University of California, Berkeley**

Education (Learning Science and Human Development), expected May 2023

Relevant Coursework (GPA 4.0)

Hierarchical and Longitudinal Modelling (A+)

Special Topics Seminars: Cognition and Development (A)

Measurement in Education and the Social Sciences II (A)

Applied Impact Evaluation (A+)

Data Analysis in Educational Research II (A+)

MSc **University of Oxford**

Applied Linguistics and Second Language Acquisition, 2017

BA **Sun Yat-Sen University (Guangzhou, China)**

English, 2016

PUBLICATIONS & PRESENTATIONS

Wang, B., & Cunningham, A. (2020, July 8-11). Testing a hypothesis of multi-layer network of orthographic neighbors via a novel measurement of orthographic knowledge. A poster accepted at Annual Meeting of the Society for Scientific Studies of Reading, Newport Beach, CA, USA (Conference canceled).

Wang, B. (2021, February 3-8). Toward a more nuanced measurement of word spelling knowledge based on item response theory. A roundtable discussion at the International Objective Measurement Workshop 2020, remote.

Wang, B. (2017, October). A novel type of text modification and its implications for vocabulary learning through reading. A paper presented at the Oxford Educational Cloud Conference: Language and Communication, Oxford, UK.

Wang, B. (2016). "Matrix-map note" system and its application in note-taking. In Sun Yat-Sen University Academic Affairs Office (Ed.), *Teaching and learning: Research and practice*. Guangzhou, China: Sun Yat-Sen University Press. [in Chinese]

Wang, B. (2015). Punting he comes. In Royal Melbourne Institute of Technology (Ed.), *The fish are fine*. Melbourne, Australia: Royal Melbourne Institute of Technology. (creative writing anthology)

RESEARCH EXPERIENCE

Testing a Hypothesis of Multi-Layer Network of Orthographic Neighbors via a Novel Measurement of Orthographic Knowledge

Coursework research, supervised by Dr. Mark Wilson & Dr. Anne Cunningham

September 2019 – present

- Designed a novel spelling test
- Used Berkeley Assessment System Software (BASS) to distribute test and analyze item response data
- Wrote data analysis report
- Redesigned test based on participants' feedback, data analysis, and more thorough literature review
- Distributed new test via Qualtrics
- Analyzed item response data via ACER ConQuest and wrote final research report
- Redesigned test again and submitted for grant application

** Poster presentation accepted by the 27th annual meeting of Society for the Scientific Study of Reading*

Novel Effect Reading Study

Member of research group led by Dr. Anne Cunningham (UC Berkeley)

August 2018 – December 2018

- Wrote drafts of methodology design on examining efficacy of mobile application “Novel Effect”
- Collaborated with research group on synthesizing and refining methodology design
- Designed novel type of picture sequencing task to measure reading comprehension

A Novel Type of Text Modification and Its Implications for Vocabulary Learning Through Reading

MSc thesis research, supervised by Dr. Jessica Briggs (University of Oxford)

December 2016 – August 2017

- Wrote literature review on text modification technique
- Devised novel text modification technique to facilitate vocabulary learning through reading
- Designed and conducted intervention program based on novel text modification technique
- Used stimulated recall to investigate participants’ cognitive processes of reading
- Administered vocabulary tests to measure intervention effect
- Transcribed and coded stimulated recall audio with NVivo to analyze factors of intervention effects

* Paper presented at the Oxford Educational Cloud Conference: Language and Communication (2017)

Chinese EFL Learners’ Reliance on the L1 Equivalents of L2 Words in Reading

BA thesis research, supervised by Dr. Xinping Chang (Sun Yat-Sen University)

December 2015 – May 2016

- Used think-aloud protocol to study English learners’ cognitive processes of reading
- Transcribed and coded think-aloud audio to analyze cause of reading comprehension errors

The Inaccurate Translation of Collocations in Chinese Government Work Report

2015

Matrix-Map Note System and Its Application in Note-taking (provincial-level funding)

2014-2015

Research assistant:

Assessment of Young EFL Learners’ Oral and Aural Language Skills at Primary Level

2017

The Study of the Sinology Literature of Foreign Employees in Modern China Customs

2015

Reforming English Grammar Testing in China’s National College Entrance Exam

2015

TEACHING EXPERIENCE

Teaching portfolio:

<https://docs.google.com/document/d/1DN5asga6DHYqIQwDomNtPvhyPB8rF1-lltTMO83rwG8/edit?usp=sharing>

Graduate Remote Instruction (GRI) Innovation Fellow - UC Berkeley

Summer 2019

Graduate Student Instructor (GSI) - UC Berkeley

Fall 2019 – present

EDUC 275B/L “Data Analysis in Educational Research II” (Spring 2021)

EDUC 293A/L “Data Analysis in Educational Research I” (Fall 2020)

- Teach weekly lab sections on using Stata and hold office hours
- Grade student homework assignments

Cog Sci 1 “Introduction to Cognitive Science” (Spring 2020)

- Teach weekly discussion sections and hold office hours
- Give guest lecture on second language acquisition to 300 students
- Grade student essays and lab assignments
- Give feedback on and grade student research proposals
- Write test questions and rubrics for, proctor and grade midterm exams (short-answer questions)

Cog Sci 1 “Introduction to Cognitive Science” (Fall 2019)

- Made comprehensive reading guides and review slides for the students
- Taught weekly discussion sections and held office hours
- Edited test questions, proctored and graded midterm and final exams

Reader - UC Berkeley*August 2020 – present***Cog Sci 100 “Basic Issue in Cognition” (Fall 2020)**

- Monitor Zoom chats in lectures
- Give feedback on and grade student research projects

English (TOEFL & IELTS) teacher - Shinyway Education (Guangzhou, China)*March 2018 – July 2018*

- Taught Chinese students who learn English as foreign language via lectures, personalized reading, and tutoring, preparing them with academic literacy necessary for higher education overseas

CONSULTING EXPERIENCE**English curriculum specialist - Enuma Learning (Berkeley, CA)***July 2019 – August 2019*

- Assessed the efficacy of Todo English, an mobile application for learning English as a foreign language
- Evaluated course material (including ebooks, audio transcripts, videos, and games)
- Synthesized research on best practice of English teaching
- Provided research-based suggestions on improving curriculum design
- Developed guideline of writing materials for English language learners
- Compiled lists of target words and phrases for content writers

Educational Research Scientist - Amira Learning (San Francisco, CA)*June 2019 – August 2019*

- Assessed the efficacy of Amira, an AI-based software for reading development of K-3 children
- Evaluated both the assessment and intervention modules of Amira
- Collaborated with programming engineers to improve the algorithm of intervention selection
- Provided research-based suggestions on adjusting Amira to unique challenges faced by English language learners, children with dyslexia, and children whose reading falls behind grade level
- Observed children using Amira and provided feedback on problems observed
- Synthesized research-based activities for parents to help children develop literacy skills

HONORS

2020 | Travel Grant | 300 USD | Graduate School of Education, University of California, Berkeley, CA

2019 | Summer Research Grant | 3000 USD | Graduate School of Education, University of California, Berkeley, CA

2017 | The Graduate Student Travel Grant | 550 GBP | St Anne's College, University of Oxford, UK

2016 | First-Class Research Report for *Student Creativity Training Program* (2014) | Sun Yat-Sen University, China

2015 | Sun Yat-Sen University Second-Class Scholarship (Top 2 of 30) | 1000 CNY | Sun Yat-Sen University, China

2014 | Research grant for *Student Creativity Training Program* | 2500 CNY | Sun Yat-Sen University, China

2012 | Freshman Documentary Report on Promoting Public Benefits Award | Sun Yat-Sen University, China

TESTS & CREDENTIALS

GRE 333 (Verbal 163 + Quant 170) + AW 4.5

TOEFL 115 (Reading 30, Writing 29, Listening 30, Speaking 26)

Cambridge Certificate in Teaching English to Speakers of Other Languages (CELTA)

National Academy of Sports and Medicine Certified Personal Trainer

SKILLS & INTERESTS**Computer:** *Stata, Inquisit Lab, ACER ConQuest, BASS, NVivo, AntConc, Mendeley, XMind, MS Office***Language:** Mandarin (native), English (proficient), French (beginner), Japanese (beginner)