

# Sin Hang (Aubrey) Lau

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## Research Interests

**Broad:** Psycholinguistics, Cognitive Psychology

**Narrow:** Language production, sentence processing, corpus linguistics

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## Education

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

*Ph.D. in Experimental Psychology (Cognitive)*

*M.A. in Experimental Psychology (Cognitive)*

Advisor: Dr. Victor S. Ferreira

GPA: 4.0

San Diego, CA

Fall 2017 - Present

2017 - 2019

### UNIVERSITY OF HONG KONG

*B.A. in General Linguistics*

• First Class Honors

• Dean's Honors List (2012-2013; 2014-2015; 2015-2016)

Hong Kong

2012-2016

### UNIVERSITY OF CALIFORNIA, SANTA BARBARA

*UCEAP Exchange Program*

• Evergreen Scholarship (HKD \$12,000)

• Dean's Honors (Letters and Science, Spring Quarter)

Santa Barbara, CA

Winter & Spring Quarters, 2015

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## Publications

**Lau, S. H., Momma, S., & Ferreira, V. S.** (Under Review). Learning Structural Alternations: What guides learners' generalization?

**Lau, S. H., Huang, Y., Ferreira, V. S., & Vul, E.** (2019). Perceptual Features Predict Word Frequency Asymmetry Across Modalities. *Attention, Perception, & Psychophysics*. 81(4), 1076-1087.

**Lau, S. H., & Hwang, H.** (2016). The Effects of Frequency on Pronoun Production. *Journal of Cognitive Science*, 17(4), 547-569.

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## Conference Presentations

### PSYCHONOMICS 2020

Poster presentation entitled "One Syllable, Two Tones, hen3 ma2 fan (very troublesome)!"

\* **J. Frank Yates Student Conference Award (1000 USD)**

Virtual

November, 2020

### THE 33<sup>RD</sup> ANNUAL CUNY HUMAN SENTENCE PROCESSING CONFERENCE

Poster presentation entitled "Learning Structural Generalizations: What tells learners how to generalize?"

Amherst, MA

March 2020

### PSYCHONOMICS 2019

Poster presentation entitled "Do people structure sentences and words using shared mechanisms?"

Montreal, Quebec

November, 2019

### INTERNATIONAL WORKSHOP ON LANGUAGE PRODUCTION (IWLP)

Poster presentation entitled "Learning Structural Generalizations: What tells learners how to generalize?"

Nijmegen, the Netherlands

Jul 2018

\* **Runner-up for the Student Poster Award (100 Euro)**

## **INTERNATIONAL WORKSHOP ON LANGUAGE PRODUCTION (IWLP)**

Poster presentation entitled “Frequency affects pronoun production”

La Jolla, CA

Jul 2016

\* The abstract was also accepted by Architectures and Mechanisms for Language Processing (AMLaP)

## **INTERGRATIONISM AND HUMANISM**

(International Association for the Integral Study of Language & Communication)

Short talk entitled “Reflections on Integrationism from an Undergraduate’s Perspective”

Oberägeri, Switzerland

Jun 2014

\* The pedagogical methodology, learning outcomes, and social implications of communication theories and models

## **INTERNATIONAL COLLOQUIUM ON INTEGRATIONAL LINGUISTICS**

Short Powerpoint presentation entitled “HKU Teaching Integrational Linguistics to First-year Undergraduates” Jun 2013 with Dr.

Hong Kong

Adrian Pablé

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### **Research Experience**

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#### **LANGUAGE PRODUCTION LAB**

University of California, San Diego, PIs: Dr. Victor S. Ferreira and Dr. Tamar Gollan

Sept 2017- Present

- Graduate Student Researcher, conducting speech planning and syntactic processing research using error elicitation techniques, artificial language learning paradigms, and corpus studies

#### **HKU LANGUAGE PROCESSING LAB**

University of Hong Kong, PI: Dr. Heeju Hwang

Sept 2015 - May 2016

- Research Assistant, assisted in Cantonese pronoun processing, Chinese-English and Korean-English bilingual and cross-linguistic research

#### **SCHOOL OF ENGLISH**

University of Hong Kong, Supervisors: Dr. Adrian Pablé and Dr. Chris Hutton

May – Jul 2014

May – Aug 2013

- Research Assistant, assisted in philosophy of language and models of communication research

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### **Teaching Experience**

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#### **PSYC 193L: PSYCHOLOGY OF THE COVID PANDEMIC LAB**

Fall 2020

- Graded assignments and exams, gave feedback and graded 50 full BSc papers

#### **PSYC 132: HORMONES AND BEHAVIOR (DR. ERIC STEINER)**

Fall 2020

- Graded assignments and exams and held office hours

#### **PSYC 60: INTRODUCTION TO STATISTICS (DR. ERIC STEINER)**

Summer Session II 2020

- Graded assignments and exams and held office hours

#### **PSYC 188: IMPULSE CONTROL DISORDERS (DR. OLIVIER GEORGE)**

Summer Session I 2020

- Wrote and graded exams, held office hours, and gave a guest lecture entitled “**OCD-related Disorders**”

#### **PSYC 162: PSYCHOLOGY AND THE LAW (DR. BRENT WILSON)**

Spring 2020

- Graded exams and held office hours

#### **PSYC 7: DEVELOPMENTAL PSYCHOLOGY FOUNDATION (DR. LINDSEY POWELL)**

Spring 2020

- Wrote and graded exams, held office hours, and gave a guest lecture entitled “**Language Learning**”

**PSYC 164: CRIMINOLOGY (DR. PAUL KAPLAN)** Winter 2020

- Graded exams and held office hours

**PSYC 145: PSYCHOLOGY OF LANGUAGE (DANBI AHN, M.A.)** Fall 2019

- Wrote and graded exams, held office hours, and gave a guest lecture entitled “**Lexical Ambiguity**”

**PSYC 3: COGNITIVE PSYCHOLOGY FOUNDATION (DR. CELESTE PILEGARD)** Winter 2019

- Graded exams, held office hours, and gave a guest lecture entitled “**Language Production and Acquisition**”

**PSYC 101: DEVELOPMENTAL PSYCHOLOGY (DR. GAIL HEYMAN)** Summer Session I 2019

- Wrote and graded exams, held office hours, and gave a guest lecture entitled “**Learning from Expectations and Surprisal**”

**PSYC 1: INTRODUCTION TO PSYCHOLOGY (DR. MARGARETTE SOUSA)** Summer Session I 2019

- Wrote and graded exams, held office hours, and gave a guest lecture entitled “**Social Psychology**”

**PSYC 71: RESEARCH METHODS (DR. EMMA GELLER)** Spring 2019

- Held 2-hour weekly sessions (~25 students) on statistics and JMP, graded exams, held office hours, and helped students design, collect data for, analyze, produce a poster and full research paper for their group projects

**PSYC 144: MEMORY AND AMNESIA (DR. JOHN WIXTED)** Winter 2019

- Wrote and graded exams, held office hours, and gave a guest lecture entitled “**Autobiographic Memory, Flashbulb Memory, and Uncommon Memory Abilities**”

**PSYC 105: COGNITIVE PSYCHOLOGY (DR. EMMA GELLER)** Fall 2018

- Wrote and graded exams, held office hours, and gave a guest lecture entitled “**Language and Thought**”

**PSYC 1: INTRODUCTION TO PSYCHOLOGY (DR. SARA YERUSHALMIAN)** Winter 2018

- Wrote and graded exams, held office hours, and gave a guest lecture entitled “**Memory**”

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### Service

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#### **GRADUATE ADMISSIONS REPRESENTATIVE**

*Graduate Student Representative*

2020

- Served on the selection committee and organized the Open House weekend with Graduate Coordinator

#### **CLIMATE COMMITTEE**

*Graduate Student Representative*

Sept 2017 - Present

- Advocated for graduate students in the department on climate issues, such as diversity, equity, and inclusion

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### Research Skills

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**Survey/Data Collection**

*Qualtrics, Amazon Mechanical Turk*

**Experimental Design**

*OpenSesame, E-Prime and E-Run, Psychopy*

**Programming/Data Extraction**

*Python and NLTK* Data extraction (corpora and tree banks), frequency distribution, regular expressions, basic part-of-speech tagger training and implementation, basic Context-Free Grammar and Probabilistic Context-Free Grammar

**Phonetic Analysis**

*Praat* Voice-onset time analysis, basic spectrogram analysis

**Statistical Analysis/Data Visualization**

*Excel, R, JMP*

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**Languages**

**Cantonese** (Native), **Mandarin** (Fluent), and **English** (Fluent; GRE: 161V 88<sup>th</sup> Percentile; TOEFL: 117/120)