

# WANITCHAYA POONPATANAPRICHHA

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## TECHNICAL SKILLS PROFILE

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- Interests: Data Science, Natural Language Processing, Decision Science, Social Science Research, Computational Methods
- Programming: R, R Markdown, Python, C, Git/Github, QGIS, GeoDa, Qualtrics, Linux; MS Office Suite, LaTeX
- Data Analysis: Neural Network, Machine Learning, GIS and Spatial Analysis, Text Analysis, Data Visualization

## EDUCATION

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### The University of Chicago, Chicago, Illinois

*Master of Arts in Computational Social Sciences, Expected: June 2021*

*Bachelor of Arts in Psychology with Honors, Cumulative GPA: 4.00/4.00; Expected: June 2020*

Relevant Classes: Computational Linguistics, Computation and the Identification of Cultural Patterns, Perspectives on Computational Analysis, Introduction to GIS and Spatial Analysis, Intro to Computer Science, Computer Science with Applications, Psychological Research Methods, Applied Regression Analysis, Analysis of Categorical Data

### Teaching Experience

Division of the Social Sciences; *Computing for the Social Sciences (R)*, Teaching Assistant, Oct. 2019 – Present

Department of Computer Science; *Computer Science with Application 1 (Python)*, Teaching Assistant, Oct. 2019 – Present

## SELECTED PROJECTS

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Visualizing Employee Diversity (Python) – Created a program in Python that input diversity and job classifications, and output Treemaps of employee diversity in Silicon Valley companies

Spatial Analysis on Biking Accessibility (R & QGIS) – Used Kernel Density Estimation, Buffer Analysis, and Point-in-Polygon Operation, in R and QGIS, to analyze biking accessibility in Chicago and create visually informative maps

Historical Text Analysis (R) – Used tf-idf, n-grams network, and LDA Topic modeling to analyze Darwin's books and Columbus's texts, leading to better understanding of these historical texts that cannot be achieved by typical literature reviews

Interactive Stereotype Content Model (R) – Designed R Shiny web application that allows users to easily complete a survey and discover their Behaviors from Intergroup Affect and Stereotypes (BIAS) Map, computed using hierarchical cluster tree

## RESEARCH AND PROFESSIONAL EXPERIENCE

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### The University of Chicago, Chicago, Illinois

Undergraduate Researcher, Behavioral Biology Lab, December 2017 – Present

- Conducted and Authored Honors Thesis on psychological and physiological study of stress associated with relationship formation
- Received Earl R. Franklin Research Fellowship and Dean's Fund for Undergraduate Research
- Led human participants through biopsychological studies
- Conducted Enzyme-linked Immunosorbent Assay (ELISA) on cortisol and testosterone
- Analyzed rich datasets including hormonal, cognitive, and behavioral data
- Analyzed data for an exploratory study about social interactions using eye tracking software focusing on aggression and violence

Undergraduate Researcher, Department of Psychology, January 2018 – April 2018

- Formulated theoretical questions about and utilized gender priming to study effects of gender stereotype on empathy
- Created experimental materials, recruited 150+ participants, collected data, and statistically analyzed the data using R
- Authored full research manuscript; Presented research results at Chicago Area Undergraduate Research Symposium

Undergraduate Research Assistant, Child Neurosuite, April 2017 – April 2018

- Verified the accuracy of the database of 1,000+ children's experiment data from 11 countries about moral development
- Assisted with preparation for experiments, including observing subjects and recording raw data during experiments

### Thailand Development Research Institute, Bangkok, Thailand

Researcher, Science and Technology Development Program, June 2017 – August 2017

- Researched and authored 4 publications on investment climate and potential investment industries in Vietnam and Philippines to guide Thai investors, under Thailand's Board of Investment (BOI)'s funding
- Planned questions for, maintained accurate records of, and wrote case studies from interviewing Vietnam's government agencies, Thai businesses in Vietnam, and other relevant subjects during research trip in Vietnam

## OTHER EXPERIENCES & HONORS

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Odyssey Scholar & University Grant – Full Tuition with Stipends; Merit & Needs-based Scholarships (2016 – 2020)

Jeff Metcalf Fellowship (Internship) Grant (2017, 2018, 2019)

Top Poster in Psychology, Chicago Area Undergraduate Research Symposium (2019)

The University of Chicago Press, Subscription Fulfillment Student Assistant, Jan. 2017 – June 2017

Happy Parenting Books Publisher, Bangkok, Fulfillment Position / Facebook Page Administrator, April 2016 – Sept. 2016