Yen-Chun Chen

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A data scientist inspired by experience in data modeling and online experiment creation. With extensive training in statistics, data analysis, and a profound understanding of human behavior, I aspire to contribute to impactful data-driven decision-making in organizations that value growth, open communication, and social responsibility.

WORK EXPERIENCE

Chung Yuan Christian University   Taoyuan
Project Research Assistant   Oct 2022 – Jul 2023

- Converted laboratory experiments to online experiments, **reducing data collection time by 60% and increasing sample size by 50%**.
- Developed 2 experiments from PsychoPy and 1 survey with Pavlovia within a month, facilitating the recruitment of 300+ participants for 3 studies.
- Implemented Qualtrics' fraud detection to ensure data quality by preventing multiple submissions and bot respondents.
- Utilized R to merge specific values from multiple files into a format suitable for statistical analysis such as ANOVA.
- Conducted and organized comprehensive literature reviews to expedite the formulation of new project proposals.

Part-Time Research Assistant   Sep 2021 – Sep 2022

- Managed the daily operations and affairs of the laboratory, ensuring all of the lab functions met the required standards.
- Examined assignments for courses such as Emotion Psychology, providing students with feedback and suggestions.
- Invited to join the research staff by the principal investigator of the Positive Psychology and Affective Science Lab.

Taoyuan Armed Forces General Hospital   Taoyuan
Clinical Psychology Clerk   Aug 2020 – Jul 2021

- Collaborated with clinical psychologists, interns, and clerks to improve group therapy treatment plans.
- Instructed patients on the guidelines for group activities, enabling smooth participation in group therapy.

PORTFOLIOS

- [Classifying depressed and control groups by motor activity time series data to aid in the clinical diagnosis of depression](#)
    - Data Wrangling and Visualization, Feature Extraction, Logistic Regression, Random Forest, SVM
- [Building a data science GitBook consists of 26 chapters](#)
    - R Markdown, R bookdown, PostgreSQL, Git, Github

SKILLS

- **Statistics & Data Analysis**: hypothesis testing, A/B testing, experimental design, GLM, multilevel modeling, SEM
- **Machine Learning**: supervised learning, unsupervised learning, bagging, boosting
- **Programming**: R (tidyverse, ggplot2, lavaan, caret); Python (numpy, pandas, matplotlib, sklearn)
- **Tools**: Database Management (MySQL, PostgreSQL); Version Control (Git); Statistical Software (SPSS)

EDUCATION

Chung Yuan Christian University   Taoyuan
M.Sc. Psychology | GPA: 3.97/4.0   Jun 2022

- Awards: Psychology Dissertation Award (**Top 5 master's degree dissertations** in 2023 by the Taiwanese Psychological Association.)

B.Sc. Psychology | GPA: 3.91/4.0   Jun 2019

- Awards: Academic Excellence Award (Top 5% of the class in the semester.)

PUBLICATIONS

- **Chen, Y. C.**, & Lee, Y. C. (in press). Love in Everyday Social Interactions Matters: Positivity Resonance Accumulates Meaning in Life. *Chinese Journal of Psychology*. (TSSCI)
    - Presented findings at the Taiwan Psychology Annual Conference (2023).

CERTIFICATIONS & RELEVANT COURSEWORK

- **Certifications:** Data Scientist Professional with R (Datacamp), Machine Learning (Sololearn), Advanced SQL (Kaggle)
- **Relevant Coursework:** Advanced Statistics, Introduction to the Application of Machine Learning in Psychology, Research Methodology, Application of Statistical Software, Psychological Experiment, Psychological Testing