# YUAN TANG

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## EDUCATION

**Harvard University, Cambridge, MA**                                          Aug. 2023 - Present
M.S. in Data Science

**University of California San Diego, La Jolla, CA**                    Sept. 2018 - Dec. 2021
B.S. with Highest Distinction in Cognitive Science/Spec. in Machine Learning & Neural Computation
Minored in Management Science
GPA 4.0/4.0

## RESEARCH EXPERIENCE

**University of California, San Diego, CA**                              April 2022 - June 2023
Pre-doc researcher with Prof. Virginia R. de Sa

- Work on various deep learning neural networks in contour integration computer vision tasks
- Developed and optimized Dale-RNN and Loc-RNN for better long-range neural communication
- Investigate task extrapolation in recurrent neural networks

## PUBLICATIONS

Veerabadran, V., Tang, Y., Raina, R., & de Sa, V.R. **Cortically Motivated Recurrence Enables Task Extrapolation – Under Review**

## TEACHING EXPERIENCE

**UC San Diego COGS 118B, Introduction to Machine Learning II**                    Fall 2021
Undergraduate Teaching Assistant

## SELECT PROJECTS / CODE

**An Assessment of 26-ways Classification of Distorted English Letters**          [Git Repo] Spring 2021
Built an automated training pipeline by employing Principal Component Analysis (PCA) and supervised machine learning algorithms. Analyzed the correlation of each letter's learning performance. Assessed how and why some letters were more successfully classified then the others.

**An Empirical Algorithms Comparison**                                          [Git Repo] Winter 2021
Built a grid search training pipeline that evaluates and compares supervised machine learning algorithms' performance cross multiple data-sets, involving heavy data pre-processing, parallel training, and statistical hypothesis test.

## HONORS AND AWARDS

- Summa Cum Laude, UC San Diego                                                         2021
- The Provost Scholar in Social Science, UC San Diego                                   2021
- Provost Honors, UC San Diego                                                      2018-2021

## LANGUAGE AND SKILLS

- **Language:** Chinese (Native) English (Proficient)
- **Skills:** Python, Java, Matlab, PyTorch, Scikit-Learn, Power Automate