

# CHENFENG LI

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## EDUCATION

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- MS Statistics | University of Chicago** (GPA: 3.73/4) Sep 2022 – May 2024  
Relevant Courses: Reinforcement Learning, Trustworthy Machine Learning, Deep Learning Systems  
Scholarships: Tuition Scholarship of Statistics Master Program (2022, 2023)
- BS Mathematics | Chinese University of Hong Kong (CUHK)** Sep 2018 - Jul 2022  
Major Concentration: Computational Big Data Analytics; Minor: Statistics  
Scholarships and Honors: BS degree with First Class Honor (2022), Undergraduate Mathematics Scholarship (2021), College Scholarships (2019, 2022)

## SKILLS and CERTIFICATIONS

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**Programming:** Python, R, SQL, C, C++, JavaScript, PHP

**Technical Skills:** Machine Learning (TensorFlow, PyTorch, scikit-learn), LLM, Data Processing (Excel, Pandas), Visualization (Matplotlib, Power BI), Databases, Cloud Computing (AWS, Azure), Statistical Analysis, Algorithms

**Language:** English (Fluent), Mandarin Chinese (Native), Cantonese (Native)

**Certifications:** Excel 2019 Associate (Microsoft), Power BI Data Analyst Associate (Microsoft), AWS Certified Cloud Partitioner (AWS), Deep Learning Specialization from DeepLearning.AI (Coursera)

## WORKING EXPERIENCE

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**Data Scientist** | Synergistic IT, CA, Online Jun 2023 - Present

Led and collaborated with projects about data insights and strategic solutions using machine learning, NLP, cloud computing with AWS and Azure, SQL, and data visualization with Power BI.

- Received comprehensive training of the practical data scientist skills in industry and business fields.
- Constructed a machine learning model to forecast sales of product for a retail chain using historical data.
- Developed an Azure-based system for analyzing the reviews sentiment for an online clothing store.
- Designed a scalable AWS cloud architecture connecting an on-premises data center to VPC using S2S VPN.
- Created and published interactive Power BI dashboards for two firms, providing real-time-sales insights.

**Statistical Consultant** | Department of Statistics, UChicago Sep - Dec 2022

Worked in a team of five consultants. Analyzed and communicated with clients to identify the requirements about data issue. Provided statistical recommendation in data analysis and delivered consulting report.

- Suggested logistic regression and patient grouping to analyze medication impact of ventilation on COVID.
- Recommended a study of Community Services to use logistic regression without propensity score weights.
- Advised on dropping highly correlated covariates and method to determine sample size for a CPR study.

## RESEARCH EXPERIENCE

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**Independent Researcher** | Master's Thesis, Department of Statistics, UChicago Sep 2023 - May 2024

Examining the Interplay Between Politicians' Facial Expressions in Media Images and News Corporation Bias.

- Constructed a name recognition model with politicians' image from Wikimedia to identify news photos.
- Analyzed facial expression logits of influential politicians from various media outlets.
- Implemented classification models and visualized results through dimensionality reduction on the logits.
- Concluded no significant effect of media orientation on facial expression selection.

**Research Team Member** | Department of Computer Science, UChicago Oct - Dec 2023

Modified Attention with Non-Linear Kernels and its Impact on Few-Shot Learning.

- Collaborated within a three-fellows team. Trained GPT-2 models on nanoGPT using OpenWebText with replacing the dot product kernel in attention mechanism by Gaussian, polynomial and periodic kernels.
- Evaluated the models with MMLU, ARC and Translation tests. Determined that traditional dot product kernels performed best overall, with some non-linear kernels excelling in specific tests.