

# HAOZHE (TONY) CHEN

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## EDUCATION

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**Columbia University, Columbia Engineering** *Aug 2021 - May 2025*  
- B.S., Computer Science, GPA: 4.05/4

## RESEARCH EXPERIENCE

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**Decision, Risk, and Operations Division, Columbia Business School** *Research Intern Apr 2023 - Present*  
- Researched principled frameworks for understanding LLM pretraining data mixture  
- Researched simulation frameworks for queueing networks and foundation model serving  
- Researched simulating human behaviors with Large Language Model  
- Advisor: [Hongseok Namkoong](#), [Tianyi Peng](#)

**Computer Vision Lab, Columbia University** *Research Intern Sep 2022 - Present*  
- Researched robustness and interpretability of vision and language models  
- Researched adaptive evaluation of foundation models  
- Researched model architectures with flexible inference-time compute scaling  
- Advisor: [Carl Vondrick](#), [Chengzhi Mao](#)

**Spoken Language Processing Group, Columbia University** *Research Intern Nov 2021 - Present*  
- Researched controllable synthesis of emotional speech  
- Built datasets for empathetic speech and conducted acoustic-lexical analysis  
- Advisor: [Julia Hirschberg](#)

**Sen Lab, UC Santa Barbara** *Research Intern June 2020 - Aug 2020*  
- Researched 3D object reconstruction model with VAE and 3D-GAN

## TEACHING EXPERIENCE

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**Columbia Business School** *Teaching Assistant July 2024 - Present*  
- B9153 Generative AI: Technical and Social (PhD Course). Instructor: [Tianyi Peng](#), [Hannah Li](#).  
- Assisted course material development on building and training Large Language Model.

**Columbia University** *Teaching Assistant Jan 2023 - May 2023*  
- COMS 3261 Computer Science Theory. Instructor: [Xi Chen](#).  
- Held office hours, graded homeworks & exams.

## SERVICE

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**Reviewer**  
- NeurIPS 2024  
- ICLR 2025  
- AISTATS 2025

## INDUSTRY EXPERIENCE

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**Together AI** *Research Intern Sep 2024 - Present*  
- Researched LLM model routing and approximate speculative decoding

**Voloridge Investment Management** *Quantitative Research Intern Sep 2023 - Dec 2023*  
- Researched equity factor modeling with neural network

**Voloridge Investment Management** *Quantitative Research Intern May 2023 - Aug 2023*  
- Researched predicting stock return with large-scale natural language datasets  
- Modeled earning call transcripts and price movements with Large Language Models, clustering, and regression  
- Designed procedure to predict commodity price movement with equity transcript data via prompting

**Voloridge Investment Management** *Quantitative Research Intern June 2021 - Aug 2021*  
- Researched stock market clustering based on price history and corporation relations using graph neural network  
- Produced stock groupings with improved intra-group correlations and adaptability to market changes

## PUBLICATIONS

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**Haozhe Chen\***, Ang Li\*, Ethan Che, Jing Dong, Tianyi Peng, Hongseok Namkoong. “QGym: Scalable Simulation and Benchmarking of Queuing Network Controllers.” *NeurIPS 2024*.

**Haozhe Chen**, Run Chen, Julia Hirschberg. “EmoKnob: Enhance Voice Cloning with Fine-Grained Emotion Control.” *EMNLP 2024*.

**Haozhe Chen**, Carl Vondrick, Chengzhi Mao. “SelfIE: Self-Interpretation of Large Language Model Embeddings.” *ICML 2024*.

**Haozhe Chen**, Junfeng Yang, Carl Vondrick, Chengzhi Mao. “INViTE: INterpret and Control Vision Transformer with Text Explanations.” *ICLR 2024*.

Run Chen, **Haozhe Chen**, Anushka Kulkarni, Eleanor Lin, Linda Pang, Divya Tadimeti, Julia Hirschberg. “Detecting Empathy in Speech.” *INTERSPEECH 2024*.

## HONORS AND AWARDS

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**Kaggle Competition Expert** (#144 of 160,000+) 2020

- Designed & trained models in natural language processing & computer vision in 20+ Kaggle competitions. Peak rank #144 out of 160,000+ users (top 0.1%)
- Won 7 silver medals and 9 bronze medals. Details available on Kaggle profile: [kaggle.com/tonychenxyz](https://kaggle.com/tonychenxyz)

**MCM Modeling Contest Meritorious Award** (6% of 13753) 2020

- Designed a regression-based model and constructed 2000+ lines of simulation to predict ocean temperature changes and impacts on fish migration; produced a [26-page paper](#)

## SKILLS AND INTERESTS

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**Programming Languages:** Python, CUDA, Java, MATLAB, C, HTML, JavaScript, CSS

**Libraries:** PyTorch, TensorFlow, Keras, scikit-learn, LightGBM, Pandas, NumPy

**Interests:** photography, cooking, creative writing, GeoGuessr