

# Armando Teles Fortes

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## Education

### Tsinghua University

M.Sc. in Computer Science and Technology

- Advised by Prof. Jun Zhu, Tsinghua SAIL Group, Institute for AI.
- Perfect GPA of 4.00/4.00. Rank: 1/70.

Beijing, China  
Sept 2021 - Present

### Instituto Superior Técnico, University of Lisbon

B.Sc. in Computer Science and Engineering

- Graduated with GPA of 17/20 (Grade A or *Muito Bom*).

Lisbon, Portugal  
Sept 2018 - July 2021

## Experience

### Tsinghua University

Student Researcher

- Advised by Prof. Jun Zhu, Tsinghua SAIL Group, Institute for Artificial Intelligence.
- Working on deep generative models, particularly text-to-image diffusion models for controllable generation.
- Actively involved in cutting-edge research, enhancing skills in machine learning and advanced problem-solving.

Beijing, China  
Sept 2022 - Present

### Carnegie Mellon University

Research Intern

- Guided by Prof. Zhiting Hu and Prof. Eric Xing, SAILING Lab, Machine Learning Department.
- Engaged in innovative research on application of reinforcement learning in the language model prompt space (within *RLPrompt* framework).
- Investigated language models' internal dynamics for enhanced output predictability and control.

Pittsburgh PA, USA (Remote)  
Sept 2021 - Feb 2023

### Amazon Web Services

Software Development Engineer Intern

- Developed key software components in Amazon RDS using Ruby on Rails.
- Integrated Amazon RDS with Service Quotas in a cross-functional team environment, improving system efficiency.
- Led a major project from concept to global rollout, directly enhancing user experience for AWS customers.

Dublin, Ireland  
June 2022 - Sept 2022

## Publications

Chendong Xiang\*, Armando Fortes\*, Khang Hui Chua, Hang Su, Jun Zhu. *FeedFace: Efficient Inference-based Face Personalization via Diffusion Models*. In Tiny Papers @ International Conference on Learning Representations (ICLR), 2024.

\* indicates co-first authors.

## Selected Projects

### Efficient and Reliable Text-to-Image Generation (高效可靠的文生图方法)

Guangdong-HK-Macao Greater Bay Area Intl. Algorithm Competition (1st out of 599 teams)

- Introduced a novel inference-based method designed to augment text-to-image diffusion models with face-based conditional generation.

Guangzhou, China  
July 2023 - Dec 2023

### Image Matching Challenge

CVPR 2022 - Kaggle Competition Silver Medal (34th out of 642 teams)

- Applied state-of-the-art methods in local feature matching, leveraging strengths from detector-based and detector-free approaches.

Beijing, China  
Mar 2022 - July 2022

### TMALL Repeat Buyers Prediction

Alibaba Cloud Tianchi Competition Top-0.7% solution (51st out of 6803 teams)

- Performed key feature extraction from raw user behavior logs. Applied gradient boosting methods and designed subsequent ensemble model.

Beijing, China  
Sept 2021 - Dec 2021

## Honors and Awards

2023 **Guangdong-HK-Macao Greater Bay Area Intl. Algorithm Competition Champion**, Pazhou Lab

Guangzhou, China

2022 **Chinese Government Scholarship (M.Sc.)**, Tsinghua University

Beijing, China

2021 **Academic Excellence Award**, Instituto Superior Técnico, University of Lisbon

Lisbon, Portugal

2020 **Academic Merit Award**, Instituto Superior Técnico, University of Lisbon

Lisbon, Portugal

## Service

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**Volunteer** ICLR (2023)

**Teaching** Programming Instructor at *TreeTree2* (2022)

## Skills

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**Languages** Portuguese (Native), English (Fluent, C1), Spanish (Proficient), Mandarin Chinese (Basic, HSK2)

**Programming** Python, Java, Ruby, JavaScript/TypeScript, C/C++, Prolog, Bash/Shell Scripting

**Machine Learning** Pytorch, Transformers, Diffusers, Accelerate, TensorFlow, Keras, Scikit-learn, NumPy, Pandas, WandB

**Miscellaneous** AWS, AWS Cloud Development Kit (CDK), SQL, NoSQL (DynamoDB, MongoDB), Hadoop DFS