

CHENG-KANG TED CHAO

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EDUCATION

George Mason University

Ph.D. in Computer Science (Computational Reality Creativity and Graphics Lab (CraGL))

Advisor: Yotam Gingold

GPA: 3.97

2020 - 2026 (expected)

Fairfax, VA

Georgia Institute of Technology

M.S. in Computational Science & Engineering

Advisor: Edmond Chow

GPA: 3.62

2018 - 2020

Atlanta, GA

National Central University

B.S. in Mathematics

GPA: 3.5

2014 - 2018

Taiwan

PUBLICATIONS

1. *LoCoPalettes*: Local Control for Palette-based Image Editing 2023
Cheng-Kang Ted Chao, Jason Klein, Jianchao Tan, Jose Echevarria, Yotam Gingold
Eurographics Symposium on Rendering (EGSR). Also in *Computer Graphics Forum (CGF)*
2. *ColorfulCurves*: Palette-Aware Lightness Control and Color Editing via Sparse Optimization 2023
Cheng-Kang Ted Chao, Jason Klein, Jianchao Tan, Jose Echevarria, Yotam Gingold
ACM SIGGRAPH North America. Also in *ACM Transactions on Graphics (TOG)*
3. Text-guided Image-and-Shape Editing and Generation: A Short Survey 2023
Cheng-Kang Ted Chao, Yotam Gingold
arXiv
4. PosterChild: Blend-Aware Artistic Posterization 2021
Cheng-Kang Ted Chao, Karan Singh, Yotam Gingold
Computer Graphics Forum (CGF). Presented at *Eurographics Symposium on Rendering (EGSR)*

RESEARCH EXPERIENCES

1. Research Intern Summer 2024
MOVIN Lab, Adobe Research San Jose, CA
Mentors: Li-Yi Wei, Rubaiat Habib Kazi
Topic: Vector graphics animation
2. Applied Research Intern Summer 2023
Tencent Pixel Lab New York, NY
Mentors: Ran Zhang, Changxi Zheng
Topic: Editing implicit fields
3. Research Assistant Summer 2022
George Mason University (CraGL) Fairfax, VA
Mentor: Yotam Gingold
Topic: Fast and accurate color and lightness editing via optimization under color-space geometry

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| 4. Research Intern
Computational Artistry Team, Adobe Research
Mentor: Jose Echevarria
Topic: Color lookup table compression for efficient color style transfer | Summer 2021
San Jose, CA |
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CONFERENCE TALKS

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| 1. ACM SIGGRAPH, Los Angeles, United States
<i>ColorfulCurves</i> : Palette-Aware Lightness Control and Color Editing via Sparse Optimization | August 2023 |
| 2. Eurographics Symposium on Rendering, Delft, Netherlands
<i>LoCoPalettes</i> : Local Control for Palette-based Image Editing | June 2023 |
| 3. Eurographics Symposium on Rendering, Saarbrücken, Germany (virtual)
PosterChild: Blend-Aware Artistic Posterization | June 2021 |

TEACHING EXPERIENCES

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| 1. Teaching Assistant, George Mason University
CS330 Formal Methods and Models
CS480 Introduction to Artificial Intelligence
CS600 Theory of Computation
CS688 Machine Learning | 2020 - now |
| 2. Volunteer, Massachusetts Institute of Technology
Summer Geometry Initiative (SGI) | Summer 2023 |
| 3. Lab lecturer, George Mason University
CS112 Introduction to Programming | 2020 |

ADDITIONAL EXPERIENCES

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| Reviewer | ACM Transactions on Graphics, ACM SIGGRAPH North America, ACM SIGGRAPH Asia Pacific Graphics, Computer & Graphics, Visual Computer, Scientific Reports Graphics Replicability Stamp Initiative (GRSI) |
| Awards | Bachelor Dean's list, GMU graduate travel fund |
| Skill set | Compute graphics, Numerical linear algebra & Optimization, Non-photorealistic rendering Color, Image processing, Implicit editing |