

# CHENG-KANG TED CHAO

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## EDUCATION

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### George Mason University

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

Advisor: Yotam Gingold

GPA: 3.97

2020 - 2025 (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

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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

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1. Applied Research Intern Summer 2023  
Tencent Pixel Lab New York, NY  
Mentors: Ran Zhang, Changxi Zheng  
Topic: Editing implicit fields
2. 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
3. Research Intern Summer 2021  
Adobe Research San Jose, CA  
Mentor: Jose Echevarria  
Topic: Color lookup table compression for efficient color style transfer

## CONFERENCE TALKS

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

## TEACHING EXPERIENCES

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

## ADDITIONAL EXPERIENCES

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- Reviewer** ACM SIGGRAPH North America, Computer & Graphics,  
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