

BOWEI CHEN

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Seattle, Washington

EDUCATION

University of Washington, U.S. *2022.9 - 2026.6 (Expected)*
Ph.D. Advisors: Steve Seitz, Brian Curless, Ira Kemelmacher-Shlizerman
Ph.D. in Computer Science & Engineering

Carnegie Mellon University, U.S. *2020.8 - 2022.8*
Master Advisor: Srinivasa Narasimhan
M.S. in Robotics. Robotics Institute, School of Computer Science

Northeastern University, China *2016.9 - 2020.6*
Undergraduate
B.E., Department of Software Engineering

RESEARCH INTEREST

I am broadly interested in visual generative models, with a particular focus on image and video generation. My work explores visual tokenizers and develops novel methods as well as creative applications for generative models.

PUBLICATIONS

Aligning Visual Foundation Encoders to Tokenizers for Diffusion Models
Bowei Chen, Sai Bi, Hao Tan, He Zhang, Tianyuan Zhang, Zhengqi Li, Yuanjun Xiong, Jianming Zhang, Kai Zhang.
Preprint 2025

Generating Fit Check Videos with a Handheld Camera
Bowei Chen, Brian Curless, Ira Kemelmacher-Shlizerman, Steve Seitz.
Preprint 2025

Inverse Painting: Reconstructing The Painting Process
Bowei Chen, Yifan Wang, Brian Curless, Ira Kemelmacher-Shlizerman, Steve Seitz.
SIGGRAPH Asia 2024

Total Selfie: Generating Full-Body Selfies
Bowei Chen, Brian Curless, Ira Kemelmacher-Shlizerman, Steve Seitz.
CVPR 2024 (**Highlight**)

Learning Feature-Preserving Portrait Editing from Generated Pairs
Bowei Chen, Tiancheng Zhi, Peihao Zhu, Shen Sang, Jing Liu, Linjie Luo.
Preprint 2024

Learning Continuous Implicit Representation for Near-Periodic Patterns

Bowei Chen, Tiancheng Zhi, Martial Hebert, Srinivasa Narasimhan.

ECCV 2022

Semantically Supervised Appearance Decomposition for Virtual Staging from a Single Panorama

Tiancheng Zhi, **Bowei Chen**, Ivaylo Boyadzhiev, Sing Bing Kang, Martial Hebert, Srinivasa Narasimhan.

SIGGRAPH 2022

Leveraging Title-Abstract Attentive Semantics for Paper Recommendation

Guibing Guo, **Bowei Chen**, Xiaoyan Zhang, Zhirong Liu, Zhenhua Dong, Xiuqiang He.

AAAI 2020

IPGAN: Generating Informative Item Pairs by Adversarial Sampling

Guibing Guo, Huan Zhou, **Bowei Chen**, Zhirong Liu, Xiao Xu, Xu Chen, Zhenhua Dong.

TNNLS

BiGAN: Collaborative Filtering with Bidirectional Generative Adversarial Networks

Rui Ding, Guibing Guo, Xiaochun Yang, **Bowei Chen**, Zhirong Liu, Xiuqiang He.

SDM 2020

path2vec: Adversarial Path Sampling for Recommender Systems

Rui Ding, **Bowei Chen**, Guibing Guo, Xiaochun Yang.

IEEE Intelligent Systems

Multi-View Visual Bayesian Personalized Ranking from Implicit Feedback

Haihua Luo, Xiaoyan Zhang, **Bowei Chen**, Guibing Guo.

UMAP 2018

EXPERIENCE

Adobe

Research Intern

2025.6 - present

Mentor: Kai Zhang

CSE, University of Washington

Research Assistant

2022.9 - present

Mentor: Steve Seitz, Brian Curless, Ira Kemelmacher-Shlizerman

Intelligence Creation Group, Bytedance

Research Intern

2023.6 - 2023.11

Mentor: Tiancheng Zhi

Robotics Institute, Carnegie Mellon University

Research Assistant

2020.8 - 2022.8

Mentor: Srinivasa Narasimhan

Platform and Content Group, Tencent

Research Intern

2019.10 - 2020.1

Mentor: Fajie Yuan

Electrical and Computer Engineering, Université Laval

Research Assistant

2019.6 - 2019.9

Mentor: Jean-François Lalonde

Software Engineering, Northeastern University
Research Assistant

2017.10 - 2020.1
Mentor: Guibing Guo

HONORS AND AWARDS

National Scholarship, 2017

Excellent Individuals of Social Practice Activities of Northeastern University, 2018

Outstanding Volunteer in Licheng Community, 2018

Outstanding Graduates of Northeastern University, 2019