BOWEI CHEN

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Seattle, Washington

EDUCATION

University of Washington, U.S.   *2022.9 - 2026.3 (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.
ICLR 2026

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	*2025.6 - present*
Research Intern	Mentor: Kai Zhang
CSE, University of Washington	*2022.9 - present*
Research Assistant	Mentor: Steve Seitz, Brian Curless, Ira Kemelmacher-Shlizerman
Intellgence Creation Group, Bytedance	*2023.6 - 2023.11*
Research Intern	Mentor: Tiancheng Zhi
Robotics Institute, Carnegie Mellon University	*2020.8 - 2022.8*
Research Assistant	Mentor: Srinivasa Narasimhan
Platform and Content Group, Tencent	*2019.10 - 2020.1*
Research Intern	Mentor: Fajie Yuan
Electrical and Computer Engineering, Université Laval	*2019.6 - 2019.9*
Research Assistant	Mentor: Jean-François Lalonde

Software Engineering, Northeastern University *2017.10 - 2020.1*
Research Assistant 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