

Min Jin Chong

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Education

University of Illinois at Urbana-Champaign

Urbana-Champaign, USA

PH.D. IN COMPUTER SCIENCE

Aug 2018 - PRESENT

- Advisor: David Forsyth
- Research Interest: Generative Models, Image Manipulation, Image Translation

University of Illinois at Urbana-Champaign

Urbana-Champaign, USA

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Aug 2015 - May 2018

- GPA: 4.00/4.00

Work Experience

Founder/Chief Science Officer

California

REVERY.AI

Jan 2021 - Oct 2021

- Founder of fashion-tech startup that allows users to visualize any outfits on themselves virtually
- Designed and implemented state of the art AI algorithms to enable realistic visualizations

Publications

StyleGAN of All Trades: Image Manipulation with Only Pretrained StyleGAN . Min Jin Chong, Hsin-Ying Lee, David Forsyth. [arXiv]

GANs N'Roses: Stable, Controllable, Diverse Image to Image Translation (works for videos too!). Min Jin Chong, David Forsyth. [arXiv]

Retrieve in Style: Unsupervised Facial Feature Transfer and Retrieval. Min Jin Chong, Wen-Sheng Chu, Abhishek Kumar, David Forsyth. In ICCV 2021, [arXiv]

Toward Accurate and Realistic Outfits Visualization with Attention to Details. Kedan Li, Min Jin Chong, Jeffrey Zhang, Jingen Liu. In CVPR 2021, [arXiv]

Toward accurate and realistic virtual try-on through shape matching and multiple warps. Kedan Li, Min Jin Chong, Jingen Liu, David Forsyth. [arXiv]

Effectively Unbiased FID and Inception Score and where to find them. Min Jin Chong and David Forsyth. In CVPR 2020, [arXiv]

Unrestricted Adversarial Examples via Semantic Manipulation. A. Bhattad*, M. J. Chong*, K. Liang, B. Li and D. A. Forsyth. In ICLR 2020, (* for equal contribution), [arXiv]

Learning Diverse Image Colorization. Aditya Deshpande, Jiajun Lu, Mao-Chuang Yeh, Min Jin Chong and David Forsyth. In CVPR 2017, [arXiv]

EEG-GRAPH: A Factor Graph Based Model for Capturing Spatial, Temporal, and Observational Relationships in Electroencephalograms. Yogatheesan Varatharajah, Min Jin Chong, Krishnakant Saboo, Brent Berry, Benjamin Brinkmann, Gregory Worrell, and Ravishankar Iyer. In Neurips 2017, [pdf]

Research Experience

Research Intern, Cerebra

Mountain View

GOOGLE AI

May 2020 - August 2020

- Managers: Vincent Chu, Abhishek Kumar
- Design a method to allow simple and intuitive manipulation of facial attributes on StyleGAN image
- Exploit StyleGAN's activations to enable retrieval of faces based on semantic concepts

Research Assistant, Computer Vision Lab

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

- Professor: David A Forsyth
- Research into controllable image-to-image translations
- Worked on Generative Models metrics
- Research into adversarial attacks and model robustness

Urbana-Champaign

Jan 2017 - Present

Research Intern, AI-Lab

BYTEDANCE INC

- Professor: Hao Chen (**UC Davis**)
- Design methods that improve robustness of models to adversarial attacks
- Create robust images that cannot be adversarially attacked even on non-robust models
- Investigate feature disentanglement using mutual information for Generative Models

Palo Alto

May 2019 - August 2019

Research Assistant, Cognition Lab

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

- Professor: Ravishankar K Iyer
- Assisted in designing a graph based model which captures spatial, temporal and observational relationships
- Applied the model to the problem of seizure onset localization
- Model outperforms conventional methods by 5-7%

Urbana-Champaign

Jan 2017 - May 2017

Research Assistant, Imaging Informatics Division

BIOINFORMATICS INSTITUTE

- Professor: Hwee Kuan Lee (**NUS**)
- Designed a novel CNN architecture that extracts both exclusive and common features to improve classification

Singapore

June 2016 - August 2016