# 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

**JoJoGAN: One Shot Face Stylization**. **Min Jin Chong**, David Forsyth. *In ECCV 2022* **[arXiv]**

**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, Computational Artistry Team**  *San Jose*

ADOBE  *May 2022 - August 2022*

- Managers: Cynthia Lu, Krishna Singh
- Design a GAN acceleration method that significantly speeds up the training and produces state of the art results

### Research Intern, Cerebra

GOOGLE AI

*Mountain View*

*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

*Urbana-Champaign*

*Jan 2017 - Present*

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

### Research Intern, AI-Lab

BYTEDANCE INC

*Palo Alto*

*May 2019 - August 2019*

- 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

### Research Assistant, Cognition Lab

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

*Urbana-Champaign*

*Jan 2017 - May 2017*

- 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%

### Research Assistant, Imaging Informatics Division

BIOINFORMATICS INSTITUTE

*Singapore*

*June 2016 - August 2016*

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