HUAYU CHEN

chendrag.github.io

2# Zijing Student Apartment ⋄ Tsinghua University ⋄ Beijing 100084 P.R.China

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EDUCATION

Tsinghua University, Beijing, China   *Aug, 2017 - Jul, 2021 (expected)*

* **Bachelor** of Engineering in Automation (expected)

* GPA: **3.87/4.0**, Ranking: **3/166**

* **Vice President** of Student Association of Science and Technology, Dept. of Automation

Core Courses

* **Mathematics**: Calculus (4.0/4.0 for both semesters), Linear Algebra (4.0/4.0 for both semesters), Stochastic Mathematical Methods (4.0/4.0), Introduction to Complex Analysis (4.0/4.0), etc.

* **Programming**: Computer Languages and Programming (4.0/4.0), C++ Program Design and Training (4.0/4.0), Data Structure and Algorithms (4.0/4.0), Computer Principles and Applications (4.0/4.0), etc.

SCHOLARSHIPS & AWARDS

2019 China National Scholarship (Highest scholarship given by the government of China,$< 0.2\%$, expected)

2019 Champion of the International Design Contest (IDC ROBOCON 2019, MIT)

2019 Tsinghua Spark Program Membership (Top student program in the field of academic research in Tsinghua University, 37/3600)

2018 Captain of the champion team in the 20th Electronic Design Competition (Highest level competition for undergraduates in Tsinghua University in the field of Electronic Engineering)

2018 1st Prize in the 35th China Regional College Students Physics Competition ($< 0.5\%$)

2018 129 Scholarship (Highest honor for students in the Dept. of Automation, 2/600)

2017 Captain of the champion team in the 1st Artificial Intelligence Challenge

2016 1st Prize in the 33rd National Physics Olympiad (Henan Province)

PUBLICATIONS & MANUSCRIPTS

[1] **Huayu Chen***, Zerong Zheng*, Yebin Liu. A Video-based Virtual Try-on System for Non-rigid Clothing. To be submitted.

RESEARCH EXPERIENCE

Tsinghua University, Beijing, China   *Oct, 2018 - May, 2019*
Broadband Network Digital Media Lab, Department of Automation
Research Assistant, Advisor: **Associate Prof. Yebin Liu**
Project: A Video-based Virtual Try-on System for Non-rigid Clothing

- Propose a video-based virtual try-on system for non-rigid(half-rigid) clothing.

- Leverage both reconstructed 3d human model representations and a learned deep renfinement network to synthesis (near) video-realistic try-on results.

- First attempt to try adding dynamic details to clothes in virtual try-on systems using a generative adversarial network.

Tsinghua University, Beijing, China   *June, 2019* - present
Intelligent Vision Group, Department of Automation
Research Assistant, Advisor: **Associate Prof. Jiwen Lu**
My work here in Intelligent Vision Group mainly focuses on efficient inference in deep neural network(including quantization, pruning and so on). Currently I'm working in the area of Network Architecture Search (NAS) based on evolutionary algorithm(EA) and reinforcement learning (RL) and hope to use this technique to help us find efficient models for specific tasks and to facilitate the deployment of neural network on the edge devices.

TECHNICAL SKILLS

Basic Knowledge & Tools   Python, MATLAB, C/C++, Tensorflow, Linux, FPGA, LaTeX

LANGUAGE SKILLS

TOFEL iBT   102/120