

ZHENGPING ZHOU

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8# Zijing Student Apartment ◇ Tsinghua University ◇ Beijing 100084, P.R. China

EDUCATION

Tsinghua University, Beijing, China 2015.8 - 2019.7(*Expected*)
B.Eng. Department of Computer Science and Technology (*expected*)

Stanford University, CA, USA 2018.7 - 2018.8
Research Assistant in the Department of Computer Science
Member of the Chinese Undergraduate Visiting Research (UGVR) Program

GRADES

GPA: 3.85/4.00, ranking 2/140

Relevant Courses:

Linear Algebra(1)&(2)	A+
Probability and Statistics	A+
Numerical Analysis	A
Fundamentals of Computer Graphics	A
Artificial Intelligence: Technology and Practice	A
Artificial Neural Network and Deep Learning	A

PUBLICATIONS

What and Where: A Context-based Recommendation System for Object Insertion.
*Song-Hai Zhang**[†], **Zhengping Zhou***, Bin Liu, Xin Dong, Dun Liang, Peter Hall, Shi-Min Hu.
IEEE Transactions on Image Processing (**2018, under submission**).
*Co-first authorship; † Supervisor.

RESEARCH EXPERIENCE

Tsinghua University, Beijing, China 2018.9 - 2018.11
Tsinghua-Tencent Joint Laboratory, Department of Computer Science *Research Assistant*
Supervisor: Songhai Zhang, Peter Hall, Shimin Hu

- **Project: What and Where: A Context-based Recommender System for Object Insertion**
- Proposed a novel research topic consisting of two dual tasks: object recommendation and scene retrieval.
- Implemented the unsupervised algorithm based on object-level context, and achieved significant improvements on performance and speed; Established a newly annotated test set, and designed task-specific metrics for benchmarking; Conducted experiments with detailed contrastive analysis.
- Finished the paper independently from scratch, and made a submission to IEEE Transactions on Image Processing (TIP) as co-first author.

Stanford University, Stanford, CA, USA 2018.7 - 2018.8
Ronald Fedkiw's group, Department of Computer Science *Research Assistant*
Supervisor: Ronald Fedkiw

- **Project: Marker-based Body and Garment Reconstruction from Multiview RGB videos**
- Established a computer vision pipeline using a setup of three RGB cameras to reconstruct 3D models for both the person and the worn garment, constrained by on-garment markers.

- Reconstructed accurate models for the garment and the person separately, by combining pose detection and shape optimization, with both quantitative and qualitative evaluation.
- Conducted a quasi-Newton optimization based on marker tracking and level set constraints, resulting in the final 3D model of a person wearing a smoothly deformed garment.

Google, Beijing, China

2017.7 - 2017.9

Supervisor: Yan Li, Jie Shao

Engineering Practicum Intern

- **Project: Bad Encoding Detection by Text Classification and Language Modeling**
- Developed a well-engineered system to detect broken texts in large-scale multilingual data.
- Proposed a hybrid model consisting of a supervised text classifier (Char-CNN) and an unsupervised language model (Bigram), achieving high precision on production data.
- Approved by the hiring committee for a return intern offer.

Tsinghua University, Beijing, China

2017.10 - 2018.4

Natural Language Processing Laboratory, Department of Computer Science

Research Assistant

Supervisor: Zhiyuan Liu

- **Project: Relation Extraction on Free Text for Knowledge-based Question Answering**
- Explored combining structured knowledge base and unstructured free text for question answering.
- Processed and manipulated large-scale datasets (e.g. FREEBASE, WIKIPEDIA, etc.) using SPARQL.
- Built an end-to-end memory network for answer candidate selection, and incorporated text-based relation extraction techniques as an auxiliary module.

HONORS

- 2018** Fellowship of Chinese Undergraduate Visiting Researcher (UGVR) Program (Top 18 in China)
- 2018** Qualcomm Scholarship (Awarded to students with excellent scientific potential, top 33/3300)
- 2018** China Computer Federation (CCF) Elite Collegiate Award (Top 73 in China)
- 2018** Excellent Academic Performance Scholarship (Top 20/140)
- 2017** Outstanding Comprehensive Performance Scholarship (Highest Honor in Dept. of CS)
- 2016** Outstanding Comprehensive Performance Scholarship (Highest Honor in Dept. of CS)
- 2015** Freshman Scholarship (Top 150/3300)

TECHNICAL STRENGTHS

Platforms	Linux, Windows
Programming Languages	Proficient with C/C++, Python, Java Familiar with MATLAB, Lua, Bash, Perl, L ^A T _E X, HTML/CSS/JavaScript
Research Skills	Proficient with TensorFlow, PyTorch Familiar with Caffe, Keras, Torch7
Software Skills	Photoshop, Illustrator, Blender, Maya

LANGUAGE SKILLS

Language	Chinese, English
TOEFL iBT	112/120 (Reading 30, Listening 29, Speaking 23, Writing 30)
GRE	331/340 + 4.0/6.0 (Verbal 162, Quantitative 169, Writing 4.0)

EXTRA-CURRICULAR ACTIVITIES

- 2015** Designed and ordered class uniform for over 30 classmates.
- 2016** Led the team of drafting, shooting and post-processing for microfilm *Hi, Siri*.
- 2016** Designed 10 hand-painted countdown posters for the Student Festival with high praise.