Weihao YU

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Education

Master of Engineering in Software Engineering, Sept 2017 – June 2019 (expected)

Advisor: Prof. Liang Lin

GPA: 3.80 / 5 (88.0 / 100)

Sun Yat-sen University (national key university of Project 985 and Project 211 in China)

Bachelor of Science in Opto-Electronic Information Science and Engineering, Sept 2013 – June 2017

(Optics and Physics are national key disciplines.)

Advisor: Prof. Dongmei Deng

GPA: 4.08 / 5 (90.8 / 100), Ranking: 1 / 82 (in major class), 1 / 189 (in similar major classes)

South China Normal University (national key university of Project 211 in China)

Awards

[1] **National Scholarship** (**top 0.5%**), Ministry of Education, 2015

[2] National Encouragement Scholarship, Ministry of Education, 2014, 2016

[3] First Prize Scholarship (**top 2%**), South China Normal University, 2013-2017 (**Received for 4 consecutive years**)

[4] Scholarship of China Telecom, All-China Students' Federation & China Telecom, 2016 (**1 among of 25000**, I was the only student wining the scholarship at our university in that year)

[5] The Special Prize Innovation Award, South China Normal University, 2017

[6] Star of Optoelectronics, School of Information and Optoelectronic Science and Engineering, South China Normal University, 2016

Publications

Google Scholar: https://scholar.google.com/citations?user=LYxjt1QAAAAJ

Conference Papers

Currently my interests are **computer vision and machine learning**.

[1] **co-first-authored** manuscript was submitted to **CVPR**'19. (Due to the requirement of anonymous review, the title is not shown in public. I was responsible for the work of reading related papers, reproducing the previous models, designing our models, programing all code, doing almost experiments and revising our manuscript. We plan to release our trained models and code.)

[2] Zhouxia Wang, Tianshui Chen, Jimmy Ren, **Weihao Yu**, Hui Cheng, and Liang Lin, "Deep Reasoning with Knowledge Graph for Social Relationship Understanding", Proc. of International Joint Conference on Artificial Intelligence (**IJCAI**), 2018.[1]

Journal Papers

There are **5 SCI Journal papers** of Optics and Physics, **all IF>1.3**. When I was an undergraduate student, my research interests were **Optics and Physics**. I was a reviewer of Appl. Optics (IF=1.791).

[1] **Weihao Yu**, Ruihuang Zhao, Fu Deng, Jiayao Huang, Chidao Chen, Xiangbo Yang, Yanping Zhao, and Dongmei Deng, "Propagation of Airy Gaussian vortex beams in uniaxial crystals", Chin. Phys. B, 2016. [2] (IF=1.321)

[2] Fu Deng, **Weihao Yu**, and Dongmei Deng, "Controllably accelerating and decelerating Airy–Bessel–Gaussian wave packets", Laser Phys. Lett., 2016. [3] (IF=2.240)

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[1] IJCAI 2018 https://www.ijcai.org/proceedings/2018/142

[2] Chin. Phys. B http://iopscience.iop.org/article/10.1088/1674-1056/25/4/044201/meta

[3] Laser Phys. Lett. http://iopscience.iop.org/article/10.1088/1612-2011/13/11/116202/meta

[3] Fu Deng, **Weihao Yu**, Jiayao Huang, Ruihuang Zhao, Jiong Lin, and Dongmei Deng, "Propagation of Airy-Gaussian beams in a chiral medium", Eur. Phys. J. D, 2016. [4] (IF=1.393)

[4] Ruihuang Zhao, Fu Deng, **Weihao Yu**, Jiayao Huang, and Dongmei Deng, "Propagation properties of Airy–Gaussian vortex beams through the gradient-index medium", J. Opt. Soc. Am. A, 2016. [5] (IF=1.556)

[5] Jiayao Huang, Zijie Liang, Fu Deng, **Weihao Yu**, Ruihuang Zhao, Bo Chen, Xiangbo Yang, and Dongmei Deng, "Propagation properties of right-hand circularly polarized Airy–Gaussian beams through slabs of right-handed materials and left-handed materials", J. Opt. Soc. Am. A, 2016. [6] (IF=1.556)

Patents

[1] **Weihao Yu**, Jiayao Huang, Ruihuang Zhao, Weijiang Yu, Yuanghao Huang, Zhihang Wu, Zhiqiang Liao, and Fu Deng, "Photoelectricity Touch Devices", CN204731762U

[2] Liang Lin and **Weihao Yu**, and Tianshui Chen, "Image scene graph generation method and device". (under view, Application No. 201811149481.7)

[3] Weijiang Yu and **Weihao Yu**, "High gain bandwidth product electronic amplifier device", CN205566232U.

[4] Jiayao Huang, Fu Deng, **Weihao Yu**, Ruihuang Zhao, Bo Ke, Zhiqiang Liao, and Dongmei Deng, "Method and device for generating second order Hermitian complex function Gaussian beam", CN105467608A.

[5] Jiayao Huang, Fu Deng, **Weihao Yu**, Ruihuang Zhao, Bo Ke, Zhiqiang Liao, and Dongmei Deng, "Device for generating a second-order Hermitian complex function Gaussian beam", CN205281028U.

[6] Weijiang Yu, Xin Huang, and **Weihao Yu**, "Control device for automatic page turning and electronic reader device", CN205721730U.

[7] Fu Deng, Ruihuang Zhao, Jiayao Huang, **Weihao Yu**, and Dongmei Deng, "Device for manipulating the direction of propagation of a circle of Airy", CN205405030U.

[8] Ruihaung Zhao, Fu Deng, Jiayao Huang, and **Weihao Yu**, "Device for generating Airy Gaussian vortex beam", CN205620619U.

[9] Weixuan Wang, Yuanfeng He, Zhun Zhang, Chengzhang Zheng, and **Weiaho Yu**, "Quasi-ultrasonic controlled multi-mode intelligent LED light", CN205213079U.

[10] Liang Lin, Tianshui Chen, Zhouxia Wang, Guanbin Li, **Weihao Yu**, and Lin Xu. "Multi-label image recognition method and device", CN108133233A.

[11] Liang Lin, Tianshui Chen, Hui Cheng, Xiaonan Luo, Lin Xu, and **Weihao Yu**, "Method and device for accelerating deep neural network", CN108053027A.

Contests

[1] Honorable Mention, Interdisciplinary Contest in Modeling, Consortium for Mathematics and Its Applications, 2015, 2016

[2] Second Price of Guangdong Prince, National Mathematical Contest in Modeling, China Society for Industrial and Applied Mathematics, 2015

Program Skills

Python, PyTorch, TensorFlow, Latex, Matlab

Hobbies

History, long-distance running and Chinese calligraphy

Appendix

[1] GPA Ranking Certification

[2] Academic Transcript of Undergraduate

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[4] Eur. Phys. J. D http://link.springer.com/article/10.1140%2Fepjd%2Fe2016-60677-8

[5] J. Opt. Soc. Am. A https://www.osapublishing.org/josaa/abstract.cfm?uri=josaa-33-6-1025

[6] J. Opt. Soc. Am. A https://www.osapublishing.org/josaa/abstract.cfm?uri=josaa-32-11-2104

华南师範大學
SOUTH CHINA NORMAL UNIVERSITY

Certification of Rank

This is to certify that Mr./MS. Yu Weihao (student ID 20133203018) studied in the Opto-Electronics Information Science and Engineering Major of School of Information and Optoelectronic Science and Engineering in South China Normal University between 2013 and 2017 as an undergraduate, with an overall GPA of 4.08 and ranked 1 among the 82 students of the major.

Grading System:

(A) 90-100=4.0-5.0 (B) 80-89=3.0-3.9 (C) 70-79=2.0-2.9

(D) 60-69=1.0-1.9 (F) 0-59=0

Signature: 刘忠民

School seal: 华南师范大学 信息光电子科技学院

Date: June 13, 2017

華南師範大學 学生成绩单

SOUTH CHINA NORMAL UNIVERSITY ACADEMIC TRANSCRIPT

Name : Yu Weihao School : School of Information and Optoelectronic Science and Engineering Program: 4-Year Undergraduate

Student ID : 20133203018 Major : Opto-Electronics Information Science and Engineering Date of Adm : September 2013

Course	Nature	Credits	Score
Fall Term 2013-2014			
Basic Computer Technology	Compulsory	2.0	87
Linear Algebra (II)	Compulsory	3.0	94
Advanced Mathematics (I-1)	Compulsory	6.0	90
Modern and Contemporary History of China	Compulsory	2.0	76
Basic Computer Application	Compulsory	1.0	Qualified
Military Training	Compulsory	1.0	86
Physical Education (1)	Compulsory	1.0	93
Basic English(1)	Compulsory	4.0	86
Spring Term 2013-2014			
College Physics Experiment(I-1)	Compulsory	1.0	87
Computer Technology Foundation	Compulsory	2.0	98
Advanced Mathematics (I-2)	Compulsory	6.0	95
Cognition Practice	Compulsory	1.0	87
Moral Cultivation and Bases of Law (Honesty and self-cultivation)	Compulsory	4.0	90
Physical Education (2)	Compulsory	1.0	89
Basic English(2)	Compulsory	4.0	85
College Physics(I-1)	Compulsory	4.0	94
Military Theory	Compulsory	2.0	90
History of Western Philosophy	Public	2.0	91
Fall Term 2014-2015			
Advanced English(1)	Compulsory	2.0	88
Experiments in Engineering Optics	Compulsory	1.0	86
Probability and Statistics (II)	Compulsory	3.0	93
Applied Optics	Compulsory	3.0	98
Engineering Optical Curriculum Design	Compulsory	1.0	82
College Physics Experiment(I-2)	Compulsory	1.0	92
Complex Variables and Integral Transforms	Compulsory	3.0	100
Basic Principles of Marxism	Compulsory	2.0	87
College Physics(I-2)	Compulsory	4.0	96
Physical Education (3)	Compulsory	1.0	94
Materials Science and Materials World	Public	2.0	91
Foundations of Circuit Analysis	Selective	4.0	92
Basic Experiments of Electro-circuit	Selective	1.0	82
Spring Term 2014-2015			
Physical Education (4)	Compulsory	1.0	89
Physical Optics	Compulsory	3.0	94
Mao Zedong Thought and Introduction to Socialist Theory with Chinese Characteristics	Compulsory	4.0	79
Signal and System	Compulsory	3.0	94
Advanced English(2)	Compulsory	2.0	85
Thermodynamics and Statistical Physics	Compulsory	3.0	91
Information Retrieval and Utilization (Science)	Public	2.0	96
Basic Experiments of Analogue Circuits	Selective	1.0	78
Foundations of Digital Circuitry	Selective	3.0	94
Basic Experiments of Digital Circuits	Selective	1.0	95
Foundations of Analogue Circuitry	Selective	3.0	89
Fundamental Graphics	Selective	2.0	86
Fall Term 2015-2016			
Experiments in Optical Information Processing	Compulsory	1.0	86
Quantum Mechanics	Compulsory	3.0	96
Fourier Optics	Compulsory	3.0	91
Social Practice of Ideological and Political Theory	Compulsory	2.0	86
Electrodynamics	Compulsory	3.0	88
C# Network Programming Design	Public	2.0	97
Experiments in Microcomputer Principles	Selective	1.0	92
Principles of Communications	Selective	3.0	94
Digital Signal Processing	Selective	3.0	89
Principles and Interface Techniques of Micro Computer	Selective	4.0	95
Basic Experiments of Communications	Selective	1.0	96
Metalworking Practice	Selective	2.0	90
Curriculum Synthetic Design of Electronic Circuit	Selective	1.0	100
Electronic Practice	Selective	2.0	85
Spring Term 2015-2016			
Professional Practice	Compulsory	8.0	91
Experiments in Laser Principle	Compulsory	1.0	79
Situation and Policies	Compulsory	2.0	84
Laser Fundamentals and Techniques	Compulsory	4.0	88
Solid State Physics	Compulsory	3.0	87
undergraduate innovation & entrepreneurship research	Public	2.0	95
Information Security and Network Countermeasure	Public	2.0	94
Fall Term 2016-2017			
Bases and Application of Infrared Techniques	Selective	2.0	97

Typist:SCNU03 Print Date: 2017-06-22

Director's Signature (seal) Teaching Affairs Office (seal)

華南師範大學 学生成绩单

SOUTH CHINA NORMAL UNIVERSITY ACADEMIC TRANSCRIPT

Name : Yu Weihao School : School of Information and Optoelectronic Science and Engineering Program: 4-Year Undergraduate

Student ID : 20133203018 Major : Opto-Electronics Information Science and Engineering Date of Adm : September 2013

Course	Nature	Credits	Score
History of Physics	Selective	2.0	99
Sensor Technique and Application	Selective	2.0	94
Spring Term 2016-2017			
Graduation Thesis	Compulsory	6.0	90
Introduction to Academics	Compulsory	1.0	93
Innovation Practice	Public	2.0	95

Course	Nature	Credits	Score

Acquired Credits	GPA
171.0	4.08

华南师范大学教务处 成绩学籍证明专用章 (2)

Typist:SCNU03 Print Date: 2017-06-22

Director's Signature (seal) Teaching Affairs Office (seal)