

Chen Yang

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EDUCATION

2020-2022 Bachelor of Biology

Department of Biology, Georgia State University-Atlanta, GA

Anticipated graduation date: July, 2022

Description: **4.12/4.30** grade point average (GPA)

Honors College student, Biology Major and Chemistry Minor

2018-2022 Bachelor of Bioengineering, Dual Degree Program with GSU

School of Life Science and Bioengineering

Southwest Jiaotong University-Chengdu, China

Description: **3.8/4.0** grade point average (GPA)

Average Score: **90.81** ◆ Ranking: **1/22**

DISTINCTIONS & AWARDS

Competitions:

2020.11 Global Silver Medal of 2020 *International Genetically Engineered Machine Competition* (iGEM)

Role: (Student Leader) Work arrangement; Exchanged and discussed work with GSU teammates in English; Human practice; Standard review paper writing.

2020.7-9 *Internet Plus (International Track) College Students innovation and Entrepreneurship Competition*

Role: (Student Leader) Negotiated with partner companies; Wrote Business Proposal; Product market analysis.

2020.5.1 Bronze Medal of the 6th Sichuan University Student *Star of Life Science and Technology Invitational Competition*

Role: Standard Review paper writing; Academic research and experiments.

2020.4 The 4th National College Students Environmental Protection Knowledge Competition provincial excellence award

2020.4 National College Students Organization and Management Competition second prize in the university

Scholarships:

- 2020.10 The Chinese Modern Scientists Scholarship (Medical and Pharmaceutical track)
2020.5 **The GSU 100% Transfer Campus Atlanta Scholarship**
2020.3 The Roke Education Scholarship
2019.12 The Second-Class Comprehensive Scholarship.

Honors:

- 2020.10 Awarded *Merit Student Model*
2020.5 Admitted by **GSU Honors College**
2020.8 Received **GSU University Assistantship** for two years
2019.12 Awarded *Merit Student*
2019.4 Received **Certificate for Red Cross First Aider** in Pidu District, Chengdu
2019.4 Awarded the *One-star Volunteer* by SWJTU

RESEARCH EXPERIENCE

- 2020.6-12 **A biosynthetic method to coral bleaching by modified symbiotic *Symbiodinium*.**
My Work: *Symbiodinium* culturing; Research on the function and pathway of photosynthesis related genes; Research on resistance gene screening; DIY biolistics (gene gun); Standard review paper writing.
- 2020.7-9 **Research and development of anti-aging cosmetics based on nano recombinant human SOD.**
My Work: Research on the functions and application in market of SOD; SOD expression optimizing; SOD Pickering Emulsion making; Product testing in lab.
- 2020.1 **Short-term exchange experience in the *Biological Science and Medical Health* project of National University of Singapore.**
Learned: Protein structure and function; Bio-intelligence science; Ornamental fish industry; Genetic studies on the Asian arowana.
- 2018-2019 **Sensitivity of endothelial cells growing in different modulus of elasticity extracellular matrix to TNF-alpha.**
My Work: PEG-NB hydrogel synthesis; Research on the relationship between TNF- α and NF- κ B; Research on the pathogenesis of atheroma; Standard Review paper writing.
One patent pending: The preparation method and application of Polyethylene glycol-based hydrogel.

PUBLICATION

- Brust, C., Lu, YL., Lam, K., Karunakaran, K., Wang, ZS., Lan, JY., Khimani, A., Yang, C., et al. (2020). A Review of Coral Bleaching Resistance Genes in *Symbiodinium*. *iGEM Vector*, 1, 44-46. <https://www.igem-maastricht.nl/journal-1>

WORK EXPERIENCE

2019.8- **Freshmen Mentor**

Present School of Life Science and Bioengineering, SWJTU, Chengdu, China.

Role: Guide freshmen to adapt to the new college life smoothly and quickly;

Organize many activities to help them to know each other better; Help to answer all of their questions about life and study.

2018-2019 **Chinese Young Volunteers Association** Communication Department in SWJTU

2018-2019 **Innovation and Entrepreneurship Club** activity department in SWJTU

PROFESSIONAL SKILLS & INTEREST

Language Skills:

English, Japanese



English Writing I: 92

English Reading I: 94

English listening I: 96

English Composition II: 95

Spoken English: 95

Japanese 1001: A

Experimental Skills:



Experiment of **Chemistry** Principle II: 93

Experiment of **Biology** Principle: 92

University **Physics** Experiment AII: 90

Experiment of Chemistry Principles: 92

Experiment of **Organic Chemistry** I: A

MOLECULAR: PCR, Bacterial Transformation, Purification and electrophoresis, Plasmid DNA Extraction.

BIOCHEMISTRY: Measuring the protein content, Organic synthesis.

BIOENGINEERING: Preparation of MS and LB culture medium, Callus Induction culturing, Subculture of adherent cell lines Observation.

Academic Skills:



Principle of **Chemical Engineering** Industry: 99

Principles of Chemistry I: 96

Organic Chemistry I: 87

Principles of **Chemistry** II: 97



Molecular Cell Biology: 91

Animal Biology: 92

Biochemistry I: 94

Biological Reaction Engineering: 94

Advances in Biotechnology: 98

Genetic Engineering: 96

Advanced **Mathematics** I: 94

Principles of Biology II: 91

Biostatistics: A+

Microbiology: 95

Computer Skills:

Learned: Pathway and protein interaction map research, BLAST, Snapgene, Chemdraw, Microsoft Office.

Learning: Coot, Chimera, Relion.

Interest:

Structure and function of protein complex, Synthetic biology, Algal photosystem, Microbiology, Protein interaction, Pharmaceutical.