

# (Freda) Xiaoyun Yu

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## EDUCATION

- **University of London** BS Computer Science (2019-2023)  
Key courses: Linear algebra, Modulus calculation, Discrete Maths, Machine learning, Algorithm structure, Game development, Software development, Agile software project, Automaton and grammar, Graphics programming, Data science
- Self-taught Courses on Coursera & China MOOC websites (2013-2019)
- **The University of Georgia** Majors: Statistics, Ecology (2013-2014)
- **Tianjin Nankai High School**, Tianjin, China (2010-2013)

## PROFESSIONAL MEMBERSHIPS

- **International Statistical Institute (ISI)** membership #: 99140

## COMPUTER SKILLS

- **Programming Languages:** Python, C, R, JavaScript (p5.js)
- **Software:** Jupyter Notebook, VSCode, Github, Microsoft Office Suite, Mathematica, Aegisub, The Geometer's Sketchpad, FL Studio, Movavi, ...
- **Typing Habit:** Wubizixing 86 version.

## ACADEMIC EXPERIENCE & WORKS PUBLISHED

- Team working for an educational Tower Defense Game 'Protect The Jungle' (2022): <https://aspgrp8.z1.web.core.windows.net/> Roles: Data analysis, user feedback gathering, proposals writing, time management, etc.
- Bird watching & plant identification (2014-present). 4000+ Photos with descriptions are uploaded in Qzone: <https://user.qzone.qq.com/764070963/4>.
- Teacher of "Introduction to Music Theory and Bach" course in Udemy with slides and 4.5+ hrs videos in English (2019). <https://www.udemy.com/intro-to-music-theory-and-bach/>
- Public communication of Science and Arts in Weibo: <https://weibo.com/TuringSnowy/> (2015-present).
- Zhang, Wenjing, X. Yu, C. Shen, D. Li, et al "Investigating the Factors which Influence the

Carbon Fixation of *Chlorella Pyrenoidosa* and the Further Use.” *International Student Science Conference 2012: Carbon Emission*. HKU & SPCC: 2 Jul - 8 Jul 2012, Hong Kong.

[http://www.spcc.edu.hk/internationalconferences/issc2012/conference\\_papers.html](http://www.spcc.edu.hk/internationalconferences/issc2012/conference_papers.html).

■ Yu, Xiaoyun. “Opinion: Soft Screens Leading Fashion.” *Chinadaily Blog*. <https://blog.chinadaily.com.cn/home.php?mod=space&uid=2266211&do=blog&quickforward=1&id=41263>.

4 Apr. 2019.

■ Yu, Xiaoyun. “A Brief Exploration of The Plant Differences Between Northern and Southern China: A Case Study.” 2019.

■ Yu, Xiaoyun. “Word Order in Linli Language.” *Bilibili*. <https://www.bilibili.com/video/av45486784>. 6 Mar. 2019.

■ Yu, Xiaoyun. “Study of Linli Language in Dialogs.” *Bilibili*. <https://www.bilibili.com/video/av45159000>. 3 Mar. 2019.

■ Plant specimens making (2015-present).

■ Yu, Xiaoyun, Chang Shen. Boycotting Disposable Tableware Action with Scientific Support. Tianjin Nankai High School, Tianjin. 2011-2012.

■ Yu, Xiaoyun. “Investigation of Economical Conditions in Linli County.” Hunan, China. 2011.

■ Music:

Piano 9th level (2006), professional level—self-taught: Bach WTC, Chopin 24 Etudes, etc.; Chorus (2010-2013); Cucurbit flute; Ukulele; Ocarina; **Composing** (indep. musician).

5sing personal page: [5sing.kugou.com/70010988/default.html](https://5sing.kugou.com/70010988/default.html)

Tencent QQ Musician page: <https://y.qq.com/n/yqq/singer/000nDi2549BXTU.html>

Netease Cloud Musician page: <https://music.163.com/#/artist/album?id=50708452>

TuringSnowy. “Imitate Mission Impossible.” *Netease Cloud Music*. 14 Feb. 2022, <https://music.163.com/#/song?id=1920305884>

TuringSnowy. “Salute to Mozart (Final Ver.).” *5sing*. 18 Mar. 2019, <http://5sing.kugou.com/yc/3865488.html>

TuringSnowy. “Melody Among Woods.” *5sing*. 12 Feb. 2019, <http://5sing.kugou.com/yc/3833824.html>

TuringSnowy. “Chinese Fugue (Piano Ver.).” *5sing*. 4 Feb. 2019, <http://5sing.kugou.com/yc/3828467.html>

## ENGLISH LEVEL

■ TOEFL: 104

■ SAT: 2070

■ AP: Calculus BC - 5; Statistics - 5; Biology - 4

## ADDITIONAL EXPERIENCE & WORKS

## ■ Handicrafts:

Traditional Chinese handicrafts & plant specimens in “TuringSnowy” little niche:

<http://shop.mogujie.com/1o6o9c>

## ■ Translation Works:

Gleeson, Kristin. *Raven Brought the Light*. Trans. Liang, Q., **X. Yu**, Y. Wang (in press)

Divulgare U of Vigo. “Evolutionary Ecology of Floral Polymorphism.” Trans. **X. Yu** et al. *Bilibili*. Alpha Subtitle, 21 Dec 2015.

Lochhead, J. “Einstein100 - General Relativity.” Trans. **X. Yu** et al. *Bilibili*. Alpha Subtitle, 23 Dec 2015.

Membership in the Alpha Subtitle Group, science division (2015-2018).

## ■ Fine Arts & Writing:

Charcoal drawing, Interactive media painting, Cartoon portraits.

Visual artist, Text editor, Video Producer, and Celebrity-souvenir Producer in Weibo.

**TuringSnowy**. “Ken Chang’s Martial Art Video Collection.” *Bilibili*. 16 Sept. 2018, <https://www.bilibili.com/video/av31873209>.

Tai, Zhengxiao, “Samuel Tai’s Happy Songs Mixed” **TuringSnowy** Ed. *Bilibili*. 26 Jan. 2019, <https://www.bilibili.com/video/av41793523>.

■ Public propagation of Science & Arts knowledge with the account named “TuringSnowy” on *Weibo* (2015-present).

■ Leader of community service and volunteer work, Tianjin Nankai High School (2010-2013).

## AWARDS & HONORS

■ “University of Georgia Classic Scholars Award” (2013).

■ Tianjin Civilized Student, China (2007-2011).

■ Tianjin Merit Student/Excellent Student Leader, China (2004-2010).

■ National Student Physics Competition, China, 2nd prize (2010).

■ Golden medal, the 7th “Little Star Cup” Oriental Children’s Grand Contest in Fine Arts (2001);

■ Golden medal, the 3rd “Peaceful Cup” China Children’s Grand Contest in Fine Arts (2001).

## TRAVEL

■ Xiaoxi Village in Yuanling County, Hunan Province, China. Jul-Aug, 2018. Self-conducted ecological tour and research.

■ Yangshuo & Guilin in Guangxi Province, China. Oct 2016. Ecological tour.

■ Taiwan, China. Jan 2016. Ecological & cultural tour.

■ Huping Mt. in Shimen County, Hunan Province, China. Jul-Aug 2015. Ecological tour, mountain hiking, and research.

■ Athens, GA, USA. May 2014.

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■ Permanently live in Tianjin and Changsha (Hunan Province). Often go for bicycle rides in suburbs & ecological observation.