ALEX Q

alexqcryptids.github.io
6465150054
alexyang@gatech.edu
Atlanta, GA
lufengcryptids
Alex Q. Wang

Game Creator & Neuroscientist

EXPERIENCE

01/2025-Present **Game Director** **VGDev@Georgia Tech**
Currently leading a game development team for Project: Botting Alive. Imagine you are buried alive in a coffin and all you have is a broken Apple Watch.
`Godot / Json / Aseprite`

08/2023-Present **Ph.D. Researcher on NeuroAI** **MathNeuro Group@Georgia Tech**
TLDR; Model your brain and guess how it works. Did a lot of stuff on recurrent neural networks (RNNs) and neural representation. I believe biological neural networks works quite differently from artificial ones, but they share great similarity at a high level, which could, or should, explain the emergence of intelligence.
`Pytorch / Python / CUDA`

05/2025-Present **Freelance Game Maker** **On Earth**
Currently creating a game about *Science and Scientists*. Still in a preliminary stage.
`Godot / Python / Unity / Blender`

05/2022-01/2023 **Research Intern** **Bionet Group@Columbia**
TLDR; Tried to recreate the visual system of fruit fly on silicon, which turned out to be a long shot.
`CUDA / C / Python / Linux`

EDUCATION

2023-Present **Ph.D. in Computational Science and Engineering & Biology** **Gerogia Tech**
Or simply PhD researcher on NeuroAI/Computational Neuroscience

2021-2023 **M.S. in Applied Mathematics** **Columbia Univeristy**
Math and Neuroscience

2017-2021 **B.S. in Chemistry (Hons)** **Wuhan University**
After realizing me suck at experiments, I chose neuroscience rather than *chem is try*.

TOOLKIT

Programming - Python, GDScript, C, MATLAB, Julia, SQL, R
Research is sexy - Pytorch, CUDA, Neuroscience, Dynamic System, Statistical Mechanics, DMFT
Art - Procreate, Aseprite
Languages - English, Mandarin, Japanese

PUBLICATION

Alex Q. Wang*, Vidit Tripathi*, Hannah Choi *Unraveling the Effects of Different Pruning Rules on Network Dynamics (Poster)*, Cosyne (2025).
Aishwarya H. Balwani, **Alex Q. Wang**, Farzaneh Najafi, Hannah Choi *Constructing Biologically Constrained RNNs via Dale'S Backprop and Topologically-Informed Pruning*, bioRxiv (2024).
Ai-Nv Zhang, Wei Wu, Chi Zhang, **Qiu-yang Wang**, Ze-Nan Zhuang, Han Cheng, Xian-Zheng Zhang *A Versatile Bacterial Membrane-Binding Chimeric Peptide with Enhanced Photodynamic Antimicrobial Activity*, Journal of Materials Chemistry B (2019).

SERVICE

Mentor Directed Reading Program 2025 @GT Math
Reviewer Undergraduate Research Symposium 2024, 2025 @GT

LANGUAGES

English - Pretend to be a bilingual
Madarin - born in China so...
Japanese - No i don't watch anime
Spanish - Does *Hola* count?

HOBBIES

Surfing (not in Atlanta tho)
Puzzles
Coffee (on my way to be a barista)
Protecting cryptids
Hating Avocado