

Jun (Keith) Yang

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Education

- 2024 – 2029 **Ph.D.** (Quantitative Biosciences), **Georgia Institute of Technology**
(expected) Advisor: Dr. Hannah Choi
- 2020 – 2024 **B.Sc. & B.Eng.**, **Tsinghua University**
Major: Mathematics and Physics + Electrical Engineering and Automation

Research Interests

- Dynamical systems — neural dynamics
- Statistical field theory for neural networks
- Information theory

Generally speaking, my research aims at revealing the fundamental link between structure, dynamics, and function of neuronal networks.

Publications

Preprints

- [1] **Yang, J.** (2025). Theories on random recurrent neural networks: a brief review. *OSF Preprints*, https://doi.org/10.31219/osf.io/ztfn7_v1

Journal articles

- [1] **Yang, J.**, Zhang, H. & Lim, S. (2024). Sensory-memory interactions via modular structure explain errors in visual working memory. *eLife* **13**, RP95160. <https://doi.org/10.7554/eLife.95160.4>

Summer Schools and Workshops

- 2025 **Modeling Software Workshop**, Allen Institute
A workshop on BMTK and VND.
- 2024 **CNeuro 2024**, Tsinghua University
A one-week computational neuroscience summer school.
- 2023 **The 12th Computational Neuroscience Winter School**, Online
A winter school organized by Shanghai Jiao Tong University

Scholarships & Awards

- 2021 – 2023 **Scholarship of Scientific or Technological Innovation Excellence**
Tsinghua University

Teaching

Teaching assistantship (at Georgia Tech)

Term	Course	Duty
Spring 2025	MATH 1553 Intro to Linear Algebra	Taught studio sessions (i.e., recitations)
Fall 2024	MATH 1554 Linear Algebra	Grader

Technical skills

	Skill	Level	Detail
Programming/ Typesetting	C	<div><div></div><div></div><div></div><div></div></div>	First programming language learned.
	Python	<div><div></div><div></div><div></div><div></div></div>	For scientific computing (BMTK, AllenSDK, PyNest, NumPy, scikit-learn, CVXPY, PyTorch, Matplotlib, IDTxl, etc.).
	MATLAB	<div><div></div><div></div><div></div><div></div></div>	Main tool for simulation and data analyses. MatCont, MatPower, MINT.
	Wolfram Mathematica	<div><div></div><div></div><div></div><div></div></div>	Beginner.
	Julia	<div><div></div><div></div><div></div><div></div></div>	Beginner.
	LaTeX & Typst	<div><div></div><div></div><div></div><div></div></div>	Typesetting academic papers.
Software	Microsoft Office Suite	<div><div></div><div></div><div></div><div></div></div>	PowerPoint, Word, Excel, OneNote, etc.
	Adobe Photoshop & Illustrator	<div><div></div><div></div><div></div><div></div></div>	Making figures for academic papers.
	Git	<div><div></div><div></div><div></div><div></div></div>	Code version management.
Languages	English	<div><div></div><div></div><div></div><div></div></div>	Fluent in academic speech and writing.
	Chinese	<div><div></div><div></div><div></div><div></div></div>	Native language.
		<div><div></div><div></div><div></div><div></div></div> basic knowledge	<div><div></div><div></div><div></div><div></div></div> extensive knowledge
		<div><div></div><div></div><div></div><div></div></div> intermediate knowledge	<div><div></div><div></div><div></div><div></div></div> expert knowledge