

# Tyler W Wang

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## Education

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**University of Illinois Urbana-Champaign**

Aug 2023 – May 2026

*Mathematics BSLAS, Physics BS*

- **GPA:** 3.97/4.0
- **Honors:** James Scholar, Dean's List
- **Scholarships:** John Edwards Scott Scholarship
- **Activities:** University of Illinois Astronomical Society

## Experience

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**Course Instructor/Tutor**, Varsity Tutors – Online

July 2023 — Present

- Designed curricula for classes over the summer to prepare students for the upcoming school year.
- Tutored students nationwide, with a focus on mathematics and physics, at both high school and university levels.
- Developed personalized learning plans to help students achieve their individual goals.

**Student Admissions Representative**,

May 2025 — Aug 2025

University of Illinois – Urbana, IL

- Supported incoming students during New Student Registration by answering questions about campus life.
- Conducted guided campus tours for prospective students, highlighting university programs and student resources.
- Participated in student panels, for audiences of up to 900 guests.

**Undergraduate Researcher**,

Aug 2024 — May 2025

Illinois Mathematics Lab – Urbana, IL

- Conducted research in multiple groups, exploring diverse mathematical problems.
- Investigated the theoretical capabilities of quantum computers in solving graph-related problems as part of a research team.
- Contributed to a project focused on developing digital representations of complex topological spaces to bring abstract mathematical ideas to a wider audience.

## Relevant Works

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**T. Wang**, *Precalculus Class Notes* (2024). [Available at [class.tylerwang.org/Precalculus](https://class.tylerwang.org/Precalculus)]

A. Chalermwatananon, C. Guo, G. Lewis, **T. Wang**, *Visualizing the Space of Seifert Fiberings* (2025). [Available at [curvesin3manifolds.github.io/article](https://curvesin3manifolds.github.io/article)]

## Works in Progress

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**T. Wang**, *Constructing Mathematics*. Manuscript in progress (publication timeline unknown). [Draft available at [text.tylerwang.org/Book.pdf](https://text.tylerwang.org/Book.pdf)].

## Relevant Coursework

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- Algebraic Topology (MATH 525 & MATH 526) [Graduate Level]
- General Topology (MATH 535) [Graduate Level]
- Honors Abstract Algebra (MATH 427)
- Abstract Algebra (MATH 501) [Graduate Level]
- Honors Real Analysis (MATH 424)
- Complex Variables (MATH 448)
- Vector and Tensor Analysis (MATH 481)
- Quantum Physics (PHYS 486)
- Classical Electromagnetism (PHYS 435 & PHYS 436)

## Technical Skills

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**Computational:** Python, Mathematica, C/C++, Java, JavaScript, React, HTML, CSS, LaTeX, Windows, MacOS, Linux, Excel.

**Languages:** English, Chinese (Mandarin), French (Elementary Proficiency).

## Academic Interests

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Mathematical physics; algebraic topology; set theory; mathematical logic & foundations