

# Luke Zhang

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## Education

**Brown University** | *Providence, Rhode Island*  
Sc. B. Mathematics - Computer Science and A.B. Education

May 2028  
GPA: 4.0/4.0

## Work Experience

**Intern** | *Linvest 21 / New York, NY*  
♦ Software development and verification in the Python team

May 2025 (anticipated) – TBD

## Teaching Experience

**Teacher, Course Developer** | *Lanqiao Future / Zhangjiakou, China* Jul 2023 – Present  
♦ Develop course materials for 5 topics to educate elementary school students about computer science and artificial intelligence  
♦ Provide insight on marketing strategy for underprivileged students to understand the initiative  
♦ Teach the course remotely and in-person to 20 students 3 times per week

**Computer Science Tutor** | *Self Employed / Remote* Mar 2020 – Mar 2024  
♦ Tutor 2 students weekly on python programming and relevant computer science topics  
♦ Taught students from scratch to USACO bronze level programming

**Math Tutor** | *George School / Newtown, PA* Sep 2022 – May 2023  
♦ Offered weekly 2-hour sessions for students of all levels needing help in mathematics  
♦ Hosted class-specific study sessions before exams

## Research Experience

**Technology Use in Classrooms: Student Response vs. Instructional Intent** | *Pioneer Academics* Jan 2023 – Aug 2023  
♦ Investigated the effects of technology use in math classrooms and their relative effectiveness, and devised an explanatory-sequential research design  
♦ Applied said research on surrounding high schools and compared the relative effectiveness measured in alignment

## Leadership Experience

**Fencing Team Captain & Founder** | *George School* Aug 2022 – May 2024  
♦ Persuaded the school to give permission and funding for building a new sports team and scouted for fencing coaches  
♦ Lead team in daily trainings during the winter season and assisted the coach  
♦ Organized weekly off-season training throughout the school year to prepare members for the next sports season

**Math Team Captain** | *George School* Aug 2023 – May 2024  
♦ Organized weekly practice sessions to prepare for competitions  
♦ Led the team in taking first place in the Philly Math League

**Dorm Prefect** | *George School* Aug 2023 – May 2024  
♦ Manage the daily needs of and resolve conflicts between residents in a boy's dormitory  
♦ Plan and organize weekly bonding activities to connect the dorm  
♦ Assists teachers in resolving school rule infringements

## Skills

**Programming Languages & Softwares:** Python, Java, C/C++, Racket  
**Packages & Frameworks:** Pytorch, Tensorflow, Scikit-learn, Numpy, Pandas, Matplotlib  
**Systems & Tools:** Linux (bash, SLURM), Git, Jupyter Notebook, Markdown,  $\text{\LaTeX}$   
**Language:** English, Mandarin, Limited working proficiency in French

## Select Coursework

**CS:** Computer Systems, Introduction to AI  
**Math:** Linear Algebra, Multivariable Calculus