

# Tyllis Xu

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## Education

**UNIVERSITY:** NORTHWESTERN UNIVERSITY, NEUROSCIENCE, INTEGRATED SCIENCE PROGRAM, COMPUTER SCIENCE TRIPLE MAJOR

## Skills

### PROGRAMMING SKILLS

- Scripting & Automation & Server Maintenance (Python, Bash, Zsh, Powershell)
- Large-Scale Data Cleaning & Analysis & Visualization (Python, R, SQL, C, C++)

### BASIC LIFE SUPPORT

- EMT-B NREMT Certified (#E3767905, Expires 3/31/2026)
- EMT-B Illinois State License (#060953189, Expires 9/30/2027)
- CPR & AED AHA Certified (#235412997193, Renew By 01/01/2025)

## Experience

### UNDERGRADUATE RESEARCHER | MOTTER GROUP, NU | JUNE 16, 2023 - CURRENT

- Scrapped public sources to download, extract, clean, and process approximately 6,000 datasets (Python)
- Implemented & tested custom code to explore and visualize the prevalence of centrality and locality in complex networks (Python, SQL, executed on networks with 100-100,000 nodes)
- Replicating latest compressed sensing (extrapolation from limited instrumentation data) research

### PATIENT CARE TECH | ENDEAVOR HEALTH | DEC 18, 2023 – JAN 7, 2024

- Assisted patients with daily needs (hygiene, toileting, bed positioning, meals, emotional support)
- Perform basic nursing procedures (room setup, vital signs, specimen collection, EKG, catheter care)
- Resigned due to scheduling conflict with university coursework

## Awards

- Award for Excellence in Mathematics by a First-Year Student, NU, 2023
- National Cyber League (Professional Cybersecurity Competition, hosted by Cyber Skylines); Gold League, Ranked Top 6.55%, 2022
- F=MA; US Physics Olympiad Finalist, 2021
- British Physics Olympiad, Global Ranking: Gold, 2021

## Further Info

- My LinkedIn: <https://www.linkedin.com/in/tyllis-xu-0a72b8259/>
- References are available upon request.