

# Shinjer Li



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## EDUCATION

### Eastern Virginia Medical School

Doctor of Medicine

Norfolk, VA

August 2025 – May 2029

### William & Mary

Bachelor of Science in Chemistry, Data Science Minor

Williamsburg, VA

August 2021 – December 2024

- GPA: 3.98

## AWARDS & HONORS

### Philip O. Geib, MD Scholarship

September 2025

- \$50,000 over four years awarded to a medical student with strong merit and academic standing

### Merck Index Award

May 2025

- Recognized for outstanding contributions to the Department of Chemistry at William & Mary

### Dean's List

Fall 2021 – December 2024

- Maintained at least a 3.6 GPA during Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023, and Spring 2024 semesters

### Poster Award

October 2024

- \$100 for the best poster at the Southeastern Magnetic Resonance Conference in solution/solid-state NMR

### Honors Fellowship Research Grant

April 2024

- \$4,250 towards an Honor's research project

### Travel in Motion Research Grant

April 2024

- \$2,000 to travel and explore research at the Experimental NMR Conference (ENC)

### W&M Values in Action Award

December 2022

- \$500 awarded to Wren Pals for commitment to the community

## RESEARCH

### Physical Chemistry Research

Williamsburg, VA

Research Student under the supervision of Dr. Tyler Meldrum

January 2022 – December 2024

- Pursued an Honor's Thesis on utilizing machine learning methods to characterize  $T_2$  exponential decays in NMR in collaboration with Dr. Daniel Vasiliu
- Examined shimming methods to improve the homogeneity of single-sided magnets

### Bio/Molecular Imaging with the German Cancer Research Center (DKFZ)

Heidelberg, Germany

Study Abroad Research Student

January 3 - 23 2023

- Analyzed and experimented with magnetic resonance instrumentation, pulse sequences, and techniques on various samples
- Developed and experienced science in an international setting

### Conference Presentations

Cardiovascular Research Technologies (CRT) in Washington, D.C.

March 7-10, 2026

- Oral presentation: DASI-guided Valve-in-Valve Transcatheter Aortic Valve Replacement with Leaflet Modification for Low Coronary Heights: A Precision Approach to Bioprosthetic Failure
- Oral presentation: Percutaneous Exclusion of Ascending Aortic Pseudoaneurysm with Coils

Southeastern Regional Meeting of the American Chemical Society (SERMACS) at Atlanta, GA

October 23-26, 2024

- Poster Presentation: CPMG categorization of pottery sherds with t-SNE and UMAP

Experimental NMR Conference (ENC) at Pacific Grove, CA

April 7-11, 2024

- Poster Presentation: Quantification of NMR Relaxometry Data with Machine Learning

Southeastern Regional Meeting of the American Chemical Society (SERMACS) at Durham, NC

October 25-28, 2023

- Poster Presentation: Designing Low-cost Resistive Coils for Improving Field Homogeneity in Single-sided NMR Systems

### Publications

- Li, S.; Vasiliu, D.; Meldrum T., Quantification of NMR Relaxometry Data with Machine Learning (In Progress)
- Valle, N; Saleh, O; Li, S; Saleh, I; Talreja, D; Summers, M., Pacemaker Post-TAVR: Evaluation of Clinical Outcomes and the Impact of Urgency Status and Implantation Timing. (Submitted to the Structural Heart journal on 9/29/25)
- Li, S.; Rubin, S. J. and Meldrum, T. (2025). RAMM: A Robotic, Autonomous Magnetic Field Mapper. *HardwareX*. <https://doi.org/10.1016/j.hwx.2025.e00700>
- Li, S. (2024) Computational Methods in NMR Relaxometry [undergraduate honors thesis]. William & Mary. <https://williammary.dspace7.openrepository.com/handle/internal/11734>

## PROFESSIONAL AFFILIATIONS

- American College of Radiology (ACR)
- Radiological Society of North America (RSNA)
- Society of Interventional Radiology (SIR)

Member, August 2025 –Present

Member, October 2025 –Present

Member, October 2025 –Present

## SKILLS

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- **Programming Languages:** Python, HTML, CSS, C++, SQL, JavaScript, R, Bash/Shell scripting
- **HPC and Parallel Computing:** Slurm, Torque, MPI, experience with parallel processing and job scheduling on HPC clusters
- **Operating Systems and Tools:** Linux, vi editor, Windows
- **Lab skills:** SDS-PAGE, PCR, Western Blotting, Protein Purification with Chromatography/Fluorescence, Gene Transformation, Incorporation of Unnatural Amino Acids, Cell Culturing, Transfection and Transduction methods, Mass Spectrometry, Nuclear Magnetic Resonance, Infrared Spectroscopy, Ultraviolet-visible spectroscopy
- **Applications:** Microsoft Office Application (Word, Excel, PowerPoint, OneNote), Photoshop
- **Languages:** Mandarin Chinese (Intermediate Proficiency)

## LEADERSHIP

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### Radiology Interest Group at EVMS

*President*

*Norfolk, VA*

*January 2026 – Present*

- Lead and coordinated all Radiology Interest Group programming, overseeing executive meetings, delegating responsibilities, and organizing educational and networking events for 50+ members.
- Serve as liaison to the EVMS Radiology Residency Program, cultivating collaborations, identifying clinical and research opportunities, and communicating timely career-development resources to members.

### Adaptive Swim Community Engaged Learning

*Vice-president of Volunteering*

*Norfolk, VA*

*December 2025 – Present*

- Coordinated volunteer communication and scheduling to support adaptive children in learning essential swimming skills, serving as primary point of contact for 50+ volunteers.
- Recruited and onboarded volunteers from EVMS and ODU through collaboration with multiple student organizations, ensuring consistent, safe, and individualized swim instruction for adaptive participants.

## INVOLVEMENT & EXPERIENCES

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### The Ketones Band

*Piano player*

*Norfolk, VA*

*August 2025 – Present*

- Active pianist for a student band, rehearsing weekly and performing at multiple live events, including the EVMS Talent Show, Rhythm & Remedy Charity Concert, and Unity Fair.
- Contributed to live musical production and performance coordination, supporting community engagement and fundraising through campus-wide events.

## LEADERSHIP & INVOLVEMENT (Undergraduate)

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### Gloucester Mathews Care Clinic

*Scribe for Dr. Wendell T. Poulsen, Family Medicine*

*Gloucester, VA*

*January 2023 – August 2024*

- Document patient data and medical history of patients while reporting medical discrepancies to physicians.
- Order lab tests, scans, prescriptions, and provide necessary documentation for patients' current and future visits.

### Inova Fairfax Hospital

*Patient Support Volunteer*

*Fairfax, VA*

*May 2022 – August 2022*

- Discharged and transported 5-10 patients daily with professionalism and care.
- Created and organized a passion cart to reward overworked healthcare workers during the COVID-19 pandemic.

### Brookdale Chambrel Williamsburg

*Volunteer*

*Williamsburg, VA*

*February 2023 – December 2024*

- Facilitated recreational activities and games to promote social interaction and cognitive stimulation.
- Regularly engaged with an average of 3 residents per visit, providing companionship and emotional support.

### Pineapple Kids

*Volunteer Tutor*

*Williamsburg, VA*

*September 2023 - December 2024*

- Implement personalized teaching methods to address the needs of middle school students.
- Assisted students during with homework assignments, test preparation, and study skills.

### Wren Pals at William and Mary

*Activities and Special Programs Director*

*Williamsburg, VA*

*September 2022 – Present*

- Coordinate weekly group activity packets, card/letter mailing, emails, and phone calls that members can engage with.
- Navigate problems and construct better methods of interaction between members and residents at the hospice center.

### Chinese Student Organization

*Events Director*

*Williamsburg, VA*

*May 2022 – May 2023*

- Organize 2-3 monthly networking and social events within the organization and in collaboration with other clubs at W&M to promote cultural awareness, acceptance, and belonging.
- Coordinate promotional events to recruit at least 50 new members per semester while fostering a welcoming environment.

### Swim Club

*Vice President of Purchases*

*Williamsburg, VA*

*May 2022 – May 2023*

- Design unique apparel (swimsuits, sweaters, T-shirts, pants) and equipment (caps, goggles, paddles) for the organization.
- Create an accessible online shop with over 10 unique items where members can purchase and view merchandise.