

## Kelvin Chen

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CONTACT INFORMATION	University of Virginia College of Arts & Sciences Charlottesville, VA 22904	Phone: (929) 377-0923 Email: <a href="mailto:ddw4hp@virginia.edu">ddw4hp@virginia.edu</a> Homepage: <a href="https://k9chen.github.io">https://k9chen.github.io</a>
EDUCATION	<b>University of Virginia</b> , Charlottesville, VA B.A., Neuroscience & B.A., Chemistry; Minor, Bioethics GPA: -  <b>Virginia Peninsula Community College</b> , Hampton, VA Dual Enrollment, Biological Science & Mathematics GPA: 5.00/5.00  <b>Woodside High School</b> , Newport News, VA Advanced Studies Diploma GPA: 4.61/4.00, Rank: 1/381	Aug 2022 – May 2026  Sept 2020 – Jun 2022  Sept 2018 – Jun 2022
RESEARCH EXPERIENCE	<b>UVA School of Medicine</b> , Charlottesville, VA <i>Undergraduate Researcher, Dept of Surgery</i> Advisor: <a href="#">Jianjie Ma, Ph.D.</a>  <i>Undergraduate Researcher, Dept of Neurosurgery</i> Advisor: <a href="#">Petr Tvrdik, Ph.D.</a>  <i>Undergraduate Researcher, Dept of Neuroscience</i> Advisor: <a href="#">Lulu Jiang, M.D., Ph.D.</a>  <i>Undergraduate Researcher, Dept of Pharmacology</i> Advisor: <a href="#">Julius Zhu, Ph.D.</a>  <b>Barrow Neurological Institute</b> , Phoenix, AZ <i>Research Intern, Dept of Translational Neuroscience</i> Advisor: <a href="#">Richard Dortch, Ph.D.</a>  <i>Research Intern, Dept of Translational Neuroscience</i> Advisor: <a href="#">Richard Dortch, Ph.D.</a>  <b>Hampton University</b> , Hampton, VA <i>Research Intern, Dept of Chemistry &amp; Biochemistry</i> Advisor: <a href="#">Peter Njoki, Ph.D.</a>	Dec 2024 – Present  Jan 2024 – Present  Aug 2023 – Jan 2024  Sep 2022 – May 2023  May 2024 – Present  May 2023 – Aug 2023  Sept 2021 – May 2022
PRESENTATIONS	Ketsiri, T., <b>Chen, K.</b> , Xu, J., Dortch, R. D. <i>Numerical Validation of Multi-Compartment Diffusion Biomarkers of Peripheral Nerve Trauma</i> . 33rd Annual Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine, Honolulu, HI, May 2025. [ <a href="#">Abstract</a> ]  <b>Chen, K.</b> , Ketsiri, T., Dortch, R. D. <i>Spherical Mean Diffusion-Weighted MRI Reveals Peripheral Axonal Pathology Following Trauma</i> . Barrow Neurological Institute Undergraduate Research Symposium, Phoenix, AZ, Aug 2024. [ <a href="#">Poster</a> ]  Ketsiri, T., <b>Chen, K.</b> , Xu, J., Dortch, R. D. <i>Validation of Multi-Compartmental Diffusion MRI Models for Peripheral Nerve Trauma</i> . Gordon Research Conference on In Vivo Magnetic Resonance, Andover, NH, Jul 2024. [ <a href="#">Poster</a> ]	

**Chen, K.**, Sadrabadi, M. S., Dortch, R. D. *Geometry-Informed Multi-Compartmental Diffusion MRI Modeling of Injured Peripheral Nerves*. Barrow Neurological Institute Undergraduate Research Symposium, Phoenix, AZ, Aug 2023. [[Poster](#)]

#### TEACHING EXPERIENCE

**University of Virginia**, Charlottesville, VA  
*Teaching Assistant, Dept of Chemistry*

- CHEM 2321 Organic Chemistry II Laboratory (Non-Chemistry Majors) Sp 2025
- CHEM 2311 Organic Chemistry I Laboratory (Non-Chemistry Majors) Fa 2024
- CHEM 1810 Principles of Chemical Structure (Accelerated) Fa 2024
- CHEM 2321 Organic Chemistry II Laboratory (Non-Chemistry Majors) Sp 2024
- CHEM 2311 Organic Chemistry I Laboratory (Non-Chemistry Majors) Fa 2023
- CHEM 1811 Principles of Chemical Structure Laboratory (Accelerated) Fa 2023

*Teaching Assistant, Dept of Physics*

- PHYS 1429 Introductory Physics I Workshop (Engineering Majors) Sp 2025

*Teaching Assistant, Dept of Psychology*

- PSYC 3210 Research Methods: Psychobiology Laboratory Sp 2024

#### PROFESSIONAL SERVICES

**UVA Office of Citizen Scholar Development**, Charlottesville, VA  
*Symposium Volunteer* Apr 2023 – Present

- Annual Undergraduate Research Symposium

*Editorial Board Staff* Sept 2022 – Present

- The Oculus: The Virginia Journal of Undergraduate Research

**W. M. Keck Center for Cellular Imaging**, Charlottesville, VA  
*Workshop Volunteer* Mar 2024

- Annual FRET, FLIM, & FLIRR Microscopy Workshop

#### ADDITIONAL ACTIVITIES

- **Editor**, Grounds: The Virginia Journal of Bioethics Jun 2023 – Present
- **Senior Mandarin Translator**, The Cavalier Daily Feb 2023 – Present
- **Investigator**, University Judiciary Committee Sept 2022 – Present
- **Senior Associate**, The Blosson Together Association Sept 2022 – Present
- **Surgical Supply Volunteer**, UVA University Hospital Sept 2022 – May 2023

#### HONORS & AWARDS

- Echols Scholarship, UVA Aug 2023
- Distinguished Research Mentorship Award, *NHREC GSST* Jun 2022
- University Achievement Award Scholarship (\$80,000), UVA Apr 2022

#### TECHNICAL SKILLS

- **Programming**: MATLAB, Python, R, C/C++, HTML/CSS/JavaScript,  $\text{\LaTeX}$
- **Frameworks**: TensorFlow, PyTorch, Pandas, NumPy, Scikit-learn, Keras

#### AFFILIATIONS

- **American Neurological Association** Jun 2024 – Present

## REFERENCES

**Jianjie Ma, Ph.D.**  
Professor of Surgery  
Dept of Surgery  
UVA School of Medicine  
[qga8zx@virginia.edu](mailto:qga8zx@virginia.edu)

**Richard Dortch, Ph.D.**  
Associate Professor of Imaging Research  
Dept of Translational Neuroscience  
Barrow Neurological Institute  
[richard.dortch@barrowneuro.org](mailto:richard.dortch@barrowneuro.org)