

Kelvin Chen

CONTACT INFORMATION	University of Virginia College of Arts & Sciences Charlottesville, VA 22904	Phone: (929) 377-0923 Email: ddw4hp@virginia.edu Homepage: https://k9chen.github.io
RESEARCH INTERESTS	My research aims to elucidate the pathophysiological mechanisms of neurovascular disorders via integrative approaches and translate preclinical findings to advance the development of novel diagnostic and therapeutic tools that will be of clinical utility.	
EDUCATION	University of Virginia , Charlottesville, VA B.A., Neuroscience & B.A., Chemistry; Minor, Bioethics	Aug 2022 – May 2026
	Virginia Peninsula Community College , Hampton, VA Dual Enrollment, Biological Science & Mathematics	Sept 2020 – Jun 2022
	Woodside High School , Newport News, VA Advanced Studies Diploma	Sept 2018 – Jun 2022
RESEARCH EXPERIENCE	UVA School of Medicine , Charlottesville, VA <i>Undergraduate Researcher, Dept of Neurosurgery</i> Advisor: Petr Tvrdik, Ph.D.	Jan 2024 – Present
	<i>Undergraduate Researcher, Dept of Neuroscience</i> Advisor: Lulu Jiang, M.D., Ph.D.	Aug 2023 – Jan 2024
	<i>Undergraduate Researcher, Dept of Pharmacology</i> Advisor: Julius Zhu, Ph.D.	Sep 2022 – May 2023
	Barrow Neurological Institute , Phoenix, AZ <i>Research Intern, Dept of Translational Neuroscience</i> Advisor: Richard Dortch, Ph.D.	May 2024 – Present
	<i>Research Intern, Dept of Translational Neuroscience</i> Advisor: Richard Dortch, Ph.D.	May 2023 – Aug 2023
	Hampton University , Hampton, VA <i>Research Intern, Department of Chemistry & Biochemistry</i> Advisor: Peter Njoki, Ph.D.	Sept 2021 – May 2022
PRESENTATIONS	Chen, K. , 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. [Poster]	
	Ketsiri, T., Chen, K. , 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. [Poster]	
	Chen, K. , Sadrabadi, M. S., Dortch, R. D. <i>Geometry-Informed Multi-Compartmental Diffusion MRI Modeling of Injured Peripheral Nerves</i> . Barrow Neurological Institute Undergraduate Research Symposium, Phoenix, AZ, Aug 2023. [Poster]	

TEACHING EXPERIENCE	University of Virginia , Charlottesville, VA	
	<i>Teaching Assistant, Dept of Chemistry</i>	
	• CHEM 2311 Organic Chemistry Laboratory I (Non-Chemistry Majors)	Fa 2024
	• CHEM 1810 Principles of Chemical Structure (Accelerated)	Fa 2024
	• CHEM 2321 Organic Chemistry Laboratory II (Non-Chemistry Majors)	Sp 2024
	• CHEM 2311 Organic Chemistry Laboratory I (Non-Chemistry Majors)	Fa 2023
	• CHEM 1811 Principles of Chemical Structure Laboratory (Accelerated)	Fa 2023
	<i>Teaching Assistant, Dept of Psychology</i>	
	• PSYC 3210 Research Methods: Psychobiology Laboratory	Sp 2024
PROFESSIONAL SERVICES	UVA Office of Citizen Scholar Development , Charlottesville, VA	
	<i>Symposium Volunteer</i>	Apr 2023 – Present
	• Annual Undergraduate Research Symposium	
	<i>Editorial Board Staff</i>	Sept 2022 – Present
	• The Oculus: The Virginia Journal of Undergraduate Research	
	W. M. Keck Center for Cellular Imaging , Charlottesville, VA	
	<i>Workshop Volunteer</i>	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, <i>UVA</i>	Aug 2023
	• Distinguished Research Mentorship Award, <i>NHREC GSST</i>	Jun 2022
	• University Achievement Award Scholarship (\$80,000), <i>UVA</i>	Apr 2022
TECHNICAL SKILLS	• Programming : MATLAB, Python, R, C/C++, SQL, HTML/CSS, \LaTeX	
	• Frameworks : TensorFlow, PyTorch, Pandas, NumPy, Scikit-learn, Keras	
AFFILIATIONS	• American Neurological Association	Jun 2024 – Present
REFERENCES	Petr Tvrdik, Ph.D.	Richard Dortch, Ph.D.
	Assistant Professor Dept of Neurosurgery UVA School of Medicine pt8bm@virginia.edu	Associate Professor Dept of Translational Neuroscience Barrow Neurological Institute richard.dortch@barrowneuro.org