Kelvin Chen

CONTACT INFORMATION	Medical Research Bldg 4 409 Lane Rd Charlottesville, VA 22903	Phone: (xxx) xxx- Email: ddw4hp@vi Homepage: https		
RESEARCH INTERESTS	Translational and clinical neuroscience, neuroimmunology, neuropharmacology, neurosurgery, vascular biology, bioinformatics, medical imaging, machine learning			
Education	 University of Virginia, Charlottesville, VA B.A., Neuroscience; Minor, Bioethics GPA: - 		Aug 2022 – May 2026	
	• Advisor(s): Jianjie Ma, Ph.D.; Ling Qi, Ph.D.			
	• Thesis: –			
	 Virginia Peninsula Community College, Hampton, VA Dual Enrollment, Biological Science & Mathematics GPA: 4.00/4.00 		Sept 2020 – Jun 2022	
	Woodside High School, Newport News, VA Advanced Studies Diploma • GPA: 4.61/4.00, Rank: 1/381		Sept 2018 – Jun 2022	
RESEARCH EXPERIENCE	 UVA School of Medicine, Charlottesville, VA Undergraduate Researcher, Dept. of Surgery Advisor: Jianjie Ma, Ph.D. Treatment of cerebral ischemia with CHO cell-derived rhMG53. 			
	 Undergraduate Researcher, Dept. of Neuro Advisor: Petr Tvrdik, Ph.D. Cre/Dre-dependent spatiotemporal map 		Jan 2024 – Present	
	 Undergraduate Researcher, Dept. of Neuroscience Aug 2023 – Jan 2024 Advisor: Lulu Jiang, M.D., Ph.D. Proximity labeling of translocated RNA with TurboID in iPSCs. 			
	 Undergraduate Researcher, Dept. of Pharr Advisor: Julius Zhu, Ph.D. Image analysis with genetically encoded 		Sep 2022 – May 2023	
	 Barrow Neurological Institute, Phoen Research Intern, Dept. of Translational No. Advisor: Richard Dortch, Ph.D. Numerical simulation of multi-compartn 	euroscience	May 2024 – Present	
	Research Intern, Dept. of Translational No. Advisor: Richard Dortch, Ph.D. • Automatic segmentation of peripheral no.		May 2023 – Aug 2023 es.	
	Hampton University, Hampton, VA Research Intern, Dept. of Chemistry & Bi	ochemistry	Sept 2021 – May 2022	

 \bullet Viral kinetic ODE-based modeling of antigen-conjugated NPs.

Advisor: Peter Njoki, Ph.D.

Presentations

- [P.1] Ketsiri, T., Chen, K., Xu, J., Dortch, R. D. Numerical Validation of Multi-Compartm-ent Diffusion Biomarkers of Peripheral Nerve Trauma. 33rd Annual Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine, Honolulu, HI, May 2025. [Abstract]
- [P.2] Chen, K., Ketsiri, T., Dortch, R. D. Spherical Mean Diffusion-Weighted MRI Reveals Peripheral Axonal Pathology Following Trauma. BNI Undergraduate Research Symposium, Phoenix, AZ, Aug 2024. [Poster]
- [P.3] Ketsiri, T., Chen, K., Xu, J., Dortch, R. D. Validation of Multi-Compartmental Diffusion MRI Models for Peripheral Nerve Trauma. Gordon Research Conference on In Vivo Magnetic Resonance, Andover, NH, Jul 2024.
- [P.4] Chen, K., Sadrabadi, M. S., Dortch, R. D. Geometry-Informed Multi-Compartmental Diffusion MRI Modeling of Injured Peripheral Nerves. BNI Undergraduate Research Symposium, Phoenix, AZ, Aug 2023. [Poster]

TEACHING EXPERIENCE

University of Virginia, Charlottesville, VA

Teaching Assistant, Dept. of Chemistry

- CHEM 2311 Organic Chemistry I Laboratory (Non-Chemistry Majors) Fa 2025 Instructor: Jason Chruma, Ph.D.
- CHEM 1810 Principles of Chemical Structure (Accelerated) Fa 2025 Instructor: Walter Harman, Ph.D.
- CHEM 2321 Organic Chemistry II Laboratory (Non-Chemistry Majors) Sp 2025 Instructor: Jason Chruma, Ph.D.
- CHEM 2311 Organic Chemistry I Laboratory (Non-Chemistry Majors) Fa 2024 Instructor: Jason Chruma, Ph.D.
- CHEM 1810 Principles of Chemical Structure (Accelerated) Fa 2024 Instructor: Walter Harman, Ph.D.
- CHEM 2321 Organic Chemistry II Laboratory (Non-Chemistry Majors) Sp 2024 Instructor: Jason Chruma, Ph.D.
- CHEM 2311 Organic Chemistry I Laboratory (Non-Chemistry Majors) Fa 2023 Instructor: Jason Chruma, Ph.D.
- CHEM 1811 Principles of Chemical Structure Laboratory (Accelerated) Fa 2023 Instructor: Sen Zhang, Ph.D.

Teaching Assistant, Dept. of Physics

• PHYS 1429 Introductory Physics I Workshop (Engineering Majors) Sp 2025 Instructor: Maksim Bychkov, Ph.D.

Teaching Assistant, Dept. of Psychology

• PSYC 3210 Research Methods: Psychobiology Laboratory Sp 2024 Instructor: Thaddeus Wiegel, Ph.D.

Awards & Grants

• Ingrassia Family Research Award (\$2,000), UVA	Apr 2025
• Harrison Undergraduate Research Award (\$5,000), UVA	Mar 2025
• Echols Scholarship, UVA	Aug 2023
• University Achievement Award Scholarship (\$80,000), UVA	Apr 2022

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COMMUNITY SERVICES

UVA Office of Citizen Scholar Development, Charlottesville, VA

Symposium Volunteer

Apr 2023 – Present

• Undergraduate Research Symposium

Editorial Board Staff

Sept 2022 – Present

• The Oculus: The Virginia Journal of Undergraduate Research

UVA School of Medicine, Charlottesville, VA

Symposium Volunteer

Mar 2025

Advancing Innovations in Translational Research into Human Applications Symposium in Honor of Hiroshi Takeshima

W. M. Keck Center for Cellular Imaging, Charlottesville, VA

Workshop Volunteer

Mar 2024

• 21st Annual FRET, FLIM, & FLIRR Microscopy Workshop

Additional Activities

• Editor, Grounds: The Virginia Journal of Bioethics	Jun 2023 – Present
• Senior Translator, The Cavalier Daily	Feb 2023 – Present
• Investigator, University Judiciary Committee	Sept 2022 – Present
• Senior Associate, The Blosson Together Association	Sept 2022 – Present
• Health & Medical Services Volunteer, Madison House	Sept 2022 – May 2023

Affiliations

• American Neurological Association

Jun 2024 – Present

• Undergraduate Research Network

Sept 2022 – Present

MEDIA MENTIONS

• Students in Jianjie Ma, PhD, Laboratory Receive Harrison Undergraduate Research Awards, *Medicine in Motion News* [Link]

SKILLS

- Programming: Python, MATLAB, R, C/C++, HTML/CSS, JavaScript, LATEX
- Frameworks: PyTorch, TensorFlow, NumPy, Pandas, Scikit-learn, OpenCV
- Languages: English, Mandarin

References

Jianjie Ma, Ph.D.

Professor & Director Division of Surgical Sciences Dept. of Surgery UVA School of Medicine qga8zx@virginia.edu

Ammasi Periasamy, Ph.D.

Professor, Director, & Founder W. M. Keck Center for Cellular Imaging Dept. of Biology & Biomed. Eng. University of Virginia ap3t@virginia.edu

Richard Dortch, Ph.D.

Associate Professor, Director, & Chair Neuroimaging Innovation Center Dept. of Translational Neuroscience Barrow Neurological Institute richard.dortch@barrowneuro.org

Andreas Gahlmann, Ph.D.

Associate Professor Center for Membrane & Cell Physiology Dept. of Chemistry UVA School of Medicine ag5vu@virginia.edu

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